State of Utah–Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT

4110 State Office Building/Salt Lake City, Utah 84114/538-3018

TAYLORSVILLE ABC STORE - REMODEL AND EXPANSION
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3381 SOUTH REDWOOD ROAD, WEST VALLEY CITY, UTAH

DFCM PROJECT NO. 06306030

APRIL 2008

CONSTRUCTION DRAWINGS

SYMBOLS AND MATERIAL LEGEND

PLAN AND SECTION INDICATIONS

EARTH
ASPHALT
BATT INSULATION
GRAVEL FILL
METAL STUD
RIGID INSULATION
CONCRETE SECTION
ALUMINUM
PLASTIC LAMINATE
C.M.U.
GYPSUM BOARD
CERAMIC TILE
BRICK
FINISH LUMBER
ACOUSTIC TILE
CONCRETE PLAN
WOOD FRAMING
CARPET & PAD
MARBLE
PLYWOOD
GLASS
PARTICLE BOARD
PLYWOOD LARGE SCALE
GLASS SMALL SCALE
FENCE
4812.0' EXISTING CONTOUR
4812.0' FINISH CONTOUR

SHEET TAGS

ROOM NAME 000
WINDOW NUMBER
DOOR NUMBER
ELEVATION MARKER
FINISH SPOT ELEV.
WALL TYPE
KEYED NOTE
GLASS TYPE

DETAIL NUMBER / SHEET ON WHICH DETAIL APPEARS — DETAIL
INTERIOR DIRECTION; ELEVATION NUMBER / SHEET ON WHICH ELEVATION APPEARS — INTERIOR ELEVATION
SECTION NUMBER / SHEET ON WHICH SECTION APPEARS — SECTION
ELEVATION NUMBER / SHEET ON WHICH ELEVATION APPEARS — EXTERIOR ELEVATION

ABBREVIATIONS

@	AT	INFO.	INFORMATION
ADJ.	ADJUSTABLE	INSUL.	INSULATION
ADJ.	ADJACENT	INT.	INTERIOR
A.B.	ANCHOR BOLT	INV.	INVERT
A.F.F.	ABOVE FINISHED FLOOR	JAN	JANITOR
		JT.	JOINT
ALT.	ALTERNATE	LAM	LAMINATE
ALUM./AL.	ALUMINUM	MAS.	MASONRY
BRD./BD.	BOARD	MAX.	MAXIMUM
BLDG.	BUILDING	MECH.	MECHANICAL
BLK.	BLOCK (BLOCKING)	MFR.	MANUFACTURER
B.M.	BENCH MARK	MANUF.	MANUFACTURER
BOT./BTTM.	BOTTOM	MIN.	MINIMUM
CAB.	CABINET	M.O.	MASONRY OPENING
C.O.	CLEAN OUT	MTL.	METAL
C.J.	CONTROL JOINT	N.I.C.	NOT IN CONTRACT
CL	CENTER LINE	NO.	NUMBER
CLG.	CEILING	O.C.	ON CENTER
C.M.U.	CONCRETE MASONRY UNIT	O.D.	OUTSIDE DIAMETER
		O.H.	OVER HEAD
COL.	COLUMN	OPNG.	OPENING
CONC.	CONCRETE	OPP.	OPPOSITE
CONTD.	CONTINUED	OV.	OVER
CONST.	CONSTRUCTION	P.LAM	PLASTIC LAMINATE
CONT.	CONTINUOUS	P.L.	PROPERTY LINE
CONTR.	CONTRACTOR	PL.	PLATE
COTG	CLEAN OUT TO GRADE	PLYWD.	PLYWOOD
		PLY.	PLYWOOD
Ø/DIA.	DIAMETER	PNTD.	PAINTED
DET.	DETAIL	PTD.	PAINTED
D.F.	DRINKING FOUNTAIN	PVMT.	PAVEMENT
DN.	DOWN	Q.T.	QUARRY TILE
DWGS.	DRAWINGS	R./R	RADIUS
DRAWGS	DRAWINGS	RCP	REINFORCED CONCRETE PIPE
EA.	EACH		
E.J.	EXPANSION JOINT	R.D.	ROOF DRAIN
ELEV./EL.	ELEVATION	REINF.	REINFORCEMENT
ELEV.	ELEVATOR	REQ.	REQUIRED
E.J.	EXPANSION JOINT	RM.	ROOM
ENL.	ENLARGED	R.O.	ROUGH OPENING
EQ.	EQUAL	SECT.	SECTION
EQUIP.	EQUIPMENT	SEC.	SECTION
EWC.	ELECTRIC WATER COOLER	SHT.	SHEET
		SIM.	SIMILAR
EXIST.	EXISTING	SQ./SQ	SQUARE
EXTG.	EXISTING	SPEC.	SPECIFICATION
EXP.	EXPANSION	S.S.	STAINLESS STEEL
EXT.	EXTERIOR	S.T.D.	STANDARD
F.D.	FLOOR DRAIN	STL.	STEEL
F.E.C.	FIRE EXTINGUISHER CABINET	STOR.	STORAGE
		STRUCT.	STRUCTURAL
F.E.	FIRE EXTINGUISHER	STRUC.	STRUCTURAL
FIN.	FINISH	SUSP.	SUSPENDED
F.F.	FINISH FLOOR	T.B.	TACK BOARD
F.H.	FIRE HYDRANT	T.O.	TOP OF
FL.	FLOOR	T.O.A.	TOP OF ASPHALT
FT.	FOOT	T.O.B.	TOP OF BEAM
F.V.	FIELD VERIFY	T.O.C.	TOP OF CONCRETE
GA.	GAUGE	T.O.C.	TOP OF CURB
GALV.	GALVANIZED	T.O.M.	TOP OF MASONRY
G.I./GALV.	GALVANIZED IRON	T.O.S.	TOP OF SLAB
G.B.	GYPSUM BOARD	T.O.W.	TOP OF WALL
GYP. BRD.	GYPSUM BOARD	TYP.	TYPICAL
H.B.	HOSE BIBB	U.N.O.	UNLESS NOTED OTHERWISE
H.C.	HANDICAPPED		
HD.	HEAD	V.T.	VINYL TILE
H.M.	HOLLOW METAL	W/	WITH
HOL.MTL.	HOLLOW METAL	W.W.M.	WELDED WIRE MESH
HR.	HOUR	W.W.F.	WELDED WIRE FABRIC
HT.	HEIGHT	WD.	WOOD
I.D.	INSIDE DIAMETER	WIN.	WINDOW
IN.	INCH	VEST.	VESTIBULE
INCMG	INCOMING	VDT.	VIDEO DISPLAY TERMINAL

CODE CRITERIA

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2006
International Mechanical Code	2006	Uniform Code for	
International Plumbing Code	2006	Building Conservation	2006
International Fire Code	2006	ADA Accessibility	
International Energy Conservation Code	2006	Guidelines	CURRENT

A. Occupancy and Group: M, S-1
Change in Use: Yes ___ No X Mixed Occupancy: Yes X No ___
Special Use and Occupancy (e.g. High Rise, Covered Mall): ___

B. Seismic Design Category: D Design Wind Speed: 90 mph

C. Type of Construction (circle one): I A, I B, II A, II B, III A, III B, IV HT, V A, V B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
North: NA South: NA East: NA West: NA

E. Mixed Occupancies: ___ Nonseparated Uses: X

F: Sprinklers:
Required: ___ Provided: X Type of Sprinkler System: AUTOMATIC

G: Number of Stories: 1 Building Height: 1

H: Actual Area per Floor (square feet): 12,068 SF SF

I: Tabular Area: 9000 SQ FT

J: Area Modifications:

a) $A_a = A_t + \left[\frac{A_t I_f}{100}\right] + \left[\frac{A_t I_s}{100}\right]$ $\quad I_f = 100\left[\frac{F}{P} - 0.25\right]\frac{W}{30}$

$A_a = 9000 + \left[\frac{9000 \times .46}{100}\right] + \left[\frac{9000 \times 3}{100}\right]$ $\quad .46 = 100\left[\frac{365}{510} - 0.25\right]\frac{30}{30}$

b) Sum of the Ratio Calculations for Mixed Occupancies:
Actual Area / Allowable Area ≤ 1 : 6225 (GROUP M) / 40140 ≤ 1 + 6186 (GROUP S-1) / 40140 ≤ 1

c) Total Allowable Area for:
1) One Story: >40140
2) Two Story: $A_a(2)$ ___
3) Three Story: $A_a(3)$ ___

d) Unlimited Area Building: Yes ___ No ___ Code Section: ___

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0*		Floors - Ceiling Floors		
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	0	
Partitions - Permanent	0		Fire Walls	0	
Fire Barriers	0		Fire Partitions	0	
			Smoke Partitions		

* NORTH EXTERIOR BEARING WALL IS GREATER THAN 0' BUT LESS THAN 10' FROM THE PROPERTY LINE REQUIRING A 1HR RATING. THE WALL IS CONSTRUCTED OF 8X8X16 CMU EXCEEDING THE 1HR RATING PER 2003 IBC TABLE 720.1.3 FOR CONCRETE MASONRY UNITS

L. Design Occupant Load: 124
Exit Width Required: 2 DOORS @ 36 = 72 Exit Width Provided: 180

M. Minimum Number of Required Plumbing Facilities:
a) Water Closets - Required (m) 1 (f) 1 Provided (m) 1 (f) 1
b) Lavatories - Required (m) 1 (f) 1 Provided (m) 1 (f) 1
c) Bath Tubs or Showers: 0
d) Drinking Fountains: 1 Service Sinks: 1

FOOTNOTES:
1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through Ξ - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

SCHEDULE OF DRAWINGS

COVER SHEETS
G001 COVER SHEET
G002 SCHEDULE OF DRAWINGS, MOUNTING STANDARDS

SITE DEVELOPMENT
AS101 SITE PLAN AND GRADING PLAN
AS102 SITE UTILITY PLAN
AS501 SITE DETAILS

ARCHITECTURAL
A101 FLOOR PLAN, ENLARGED FLOOR PLANS, DEMOLITION FLOOR PLAN
A102 REFLECTED CEILING PLAN, SECTIONS AND DETAILS
A103 ROOF PLAN, SECTIONS AND DETAILS
A104 INTERIOR ELEVATIONS, MISCELLANEOUS SECTIONS AND DETAILS
A201 EXTERIOR ELEVATIONS AND BUILDING SECTIONS
A301 WALL SECTIONS AND DETAILS
A302 WALL SECTIONS AND DETAILS
A303 WALL SECTIONS AND DETAILS
A501 MISCELLANEOUS DETAILS
A601 DOOR, WINDOW AND FINISH SCHEDULES

STRUCTURAL
S001 STRUCTURAL NOTES
S101 FOOTING & FOUNDATION PLAN
S102 ROOF FRAMING PLAN
S201 STRUCTURAL DETAILS
S202 STRUCTURAL DETAILS

MECHANICAL
M0.1 MECHANICAL SCHEDULES
M2.1 MECHANICAL FLOOR PLAN AND ROOF PLAN
M6.1 MECHANICAL DETAILS

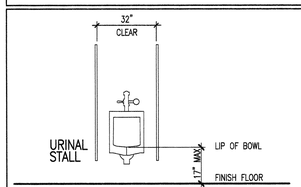
PLUMBING
P2.1 PLUMBING FLOOR PLAN AND DEMO PLAN

ELECTRICAL
E100 ELECTRICAL SYMBOLS, SCHEDULES AND NOTES
E101 DEMOLITION PLANS
E201 LIGHTING AND POWER PLANS
E301 ELECTRICAL DIAGRAMS
E401 ELECTRICAL DETAILS
E402 ELECTRICAL SCHEMATICS AND ONE LINE DIAGRAM

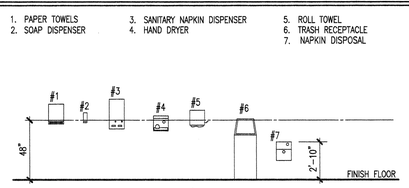
PHASING

IT IS THE INTENT OF THE OWNER THAT THE EXISTING FACILITY REMAIN OPEN FOR AS LONG AS POSSIBLE DURING CONSTRUCTION. THE CONTRACTOR IS TO COMPLETE THE CONSTRUCTION OF THE NEW BUILDING SHELL INCLUDING THE CONCRETE FOOTINGS, FOUNDATIONS AND FLOOR SLAB, MASONRY WALLS, STEEL ROOF JOIST AND DECK AND ROUGH HVAC AND ELECTRICAL PRIOR TO BREACHING THE WALL INTO THE EXISTING FACILITY. UPON COMPLETION OF THIS WORK AND WITH A MINIMUM TWO WEEK NOTICE, THE EXISTING FACILITY WILL BE CLOSED AND ALL PRODUCT REMOVED FROM THE STORE. THE CONTRACTOR WILL THEN HAVE FULL ACCESS TO THE EXISTING BUILDING UNTIL THE REMAINDER OF THE WORK IS COMPLETE.

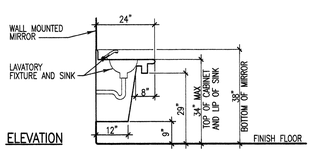
TYPICAL HANDICAP TOILET ROOM MOUNTING STANDARDS

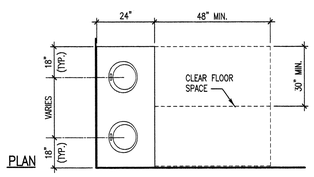


TYPICAL HANDICAP URINAL CLEARANCES

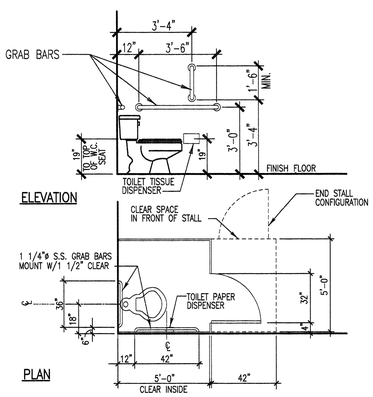


MISCELLANEOUS MOUNTING HEIGHTS



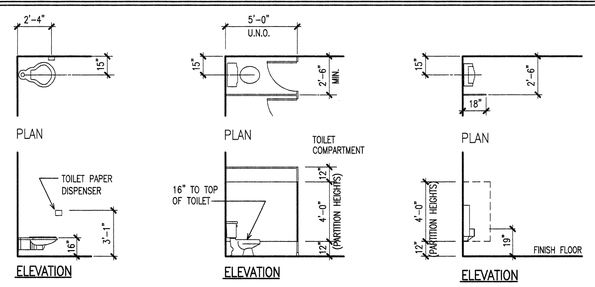


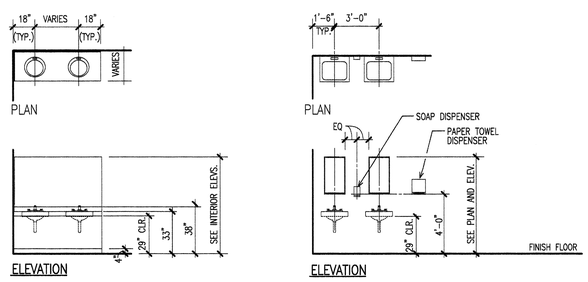
TYPICAL HANDICAP LAVATORY CLEARANCES



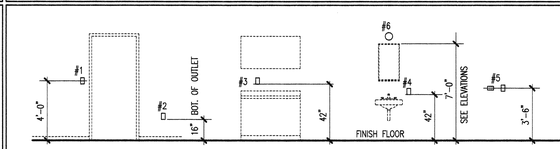
TYPICAL HANDICAP TOILET ROOM CLEARANCES

TYPICAL (NON-HANDICAPPED) TOILET ROOM MOUNTING STANDARDS





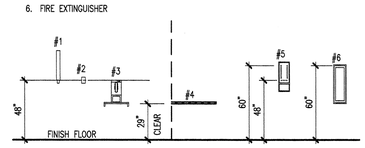
TYPICAL MISCELLANEOUS MOUNTING STANDARDS



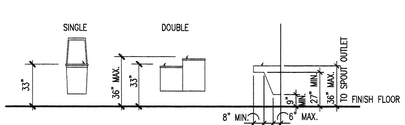
ITEM DESIGNATION
1. TYPICAL SWITCH HEIGHT
2. TYPICAL OUTLET HEIGHT
3. TYPICAL OUTLET HEIGHT AT COUNTERTOP
4. TYPICAL G.F.I. OUTLET HEIGHT AT LAVATORY
5. TYPICAL OUTLET HEIGHT FOR LAUNDRY ROOM AND UTILITY ROOM
6. TYPICAL BATH LIGHT FIXTURE HEIGHT

ELECTRICAL OUTLETS AND SWITCHES

ITEM DESIGNATION
1. PAPER CUP DISPENSER
2. ELECTRIC SWITCH/THERMOSTAT/FIRE ALARM
3. TELEPHONE
4. COUNTER TOP/DESK
5. ELEVATOR CONTROLS
6. FIRE EXTINGUISHER

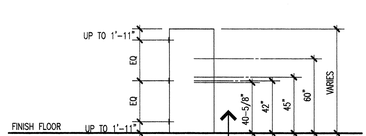


MISCELLANEOUS MOUNTING HEIGHTS

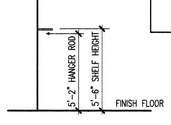


ELECTRIC WATER COOLERS

ITEM DESIGNATION
1. DEADLOCK AND STRIKE
2. PUSH AND PULL LATCHES, ARM PULL, (LOWER BASE), PULL PLATE CENTER LINE
3. BAR AND PULL CENTER LINE
4. CENTER LINE STRIKE, KNOB, LOCKS, HANDLE SETS, ROLLER LATCHES, EXIT BOLTS LOCKS



DOORS



CLOSETS

24" CLEARANCE
PROVIDE 24" MINIMUM CLEARANCE FROM EDGE OF DOOR (@ LATCH SIDE) TO ADJACENT WALL WHEN DOOR PULLS TOWARDS YOU.

18" CLEARANCE
PROVIDE 18" MINIMUM CLEARANCE FROM EDGE OF DOOR (@ LATCH SIDE) TO ADJACENT WALL WHEN DOOR PUSHES AWAY FROM YOU.

TAYLORSVILLE ABC STORE - REMODEL AND EXPANSION
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH
SCHEDULE OF DRAWINGS, MOUNTING STANDARDS, CODE REVIEW

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH FRANK N. MURDOCK 124498 LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.: 06306030
CONSTR. DOC.
FILE NAME: ABCTV-G002
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: APRIL 2008

G 002

SITE INFORMATION

PARKING:

PARKING STALLS	27 STALLS
ACCESSIBLE STALLS	2 STALLS
PARKING TOTALS	29 STALLS

SITE DRAWINGS

SEE SHEET AS101 FOR GENERAL SITE INFORMATION AND DIMENSIONS
SEE SHEET AS102 FOR SITE GRADING AND STORM SEWER INFORMATION
SEE SHEET AS103 FOR SITE UTILITY INFORMATION
SEE SHEET AS501 FOR SITE DETAIL INFORMATION

SITE PLAN LEGEND

- CB — CATCH BASIN
- SD — STORM DRAIN MAN HOLE
- POWER POLE
- WATER VALVE
- ELECTRIC BOX
- FIRE HYDRANT
- SS — SANITARY SEWER MAN HOLE
- LIGHT POST
- STREET LIGHT BOX
- GAS METER
- TELEPHONE BOX
- PL — PROPERTY LINE
- L — LANDSCAPE AREA
- SW — SIDEWALK
- OVERHEAD TRANSMISSION LINE
- UNDERGROUND POWER
- SS — SANITARY SEWER
- W — WATER LINE
- T — TELEPHONE LINE
- G — GAS LINE
- C — CABLE T.V.
- PARKING STALLS
- x — FENCE
- 4434 — EXISTING GRADE CONTOUR
- 31 — NEW GRADE CONTOUR
- CENTER LINE OF ROAD
- NEW SECURITY FENCE – SEE 22/SD-4
- A / B — SIGN TYPES – SEE 2/SD-4
- NEW CONCRETE PAVING AND SIDEWALKS
- ROADWAY, SERVICE AND DOCK AREA (ASPHALT)
- 2 – 4" PVC PIPE SLEEVE

T.O.G	TOP OF GRATE
I.E.	INVERT ELEVATION
T.O.SW	TOP OS SIDEWALK
T.O.PV	TOP OF PAVEMENT
T.O.C.	TOP OF CONCRETE

GENERAL NOTES

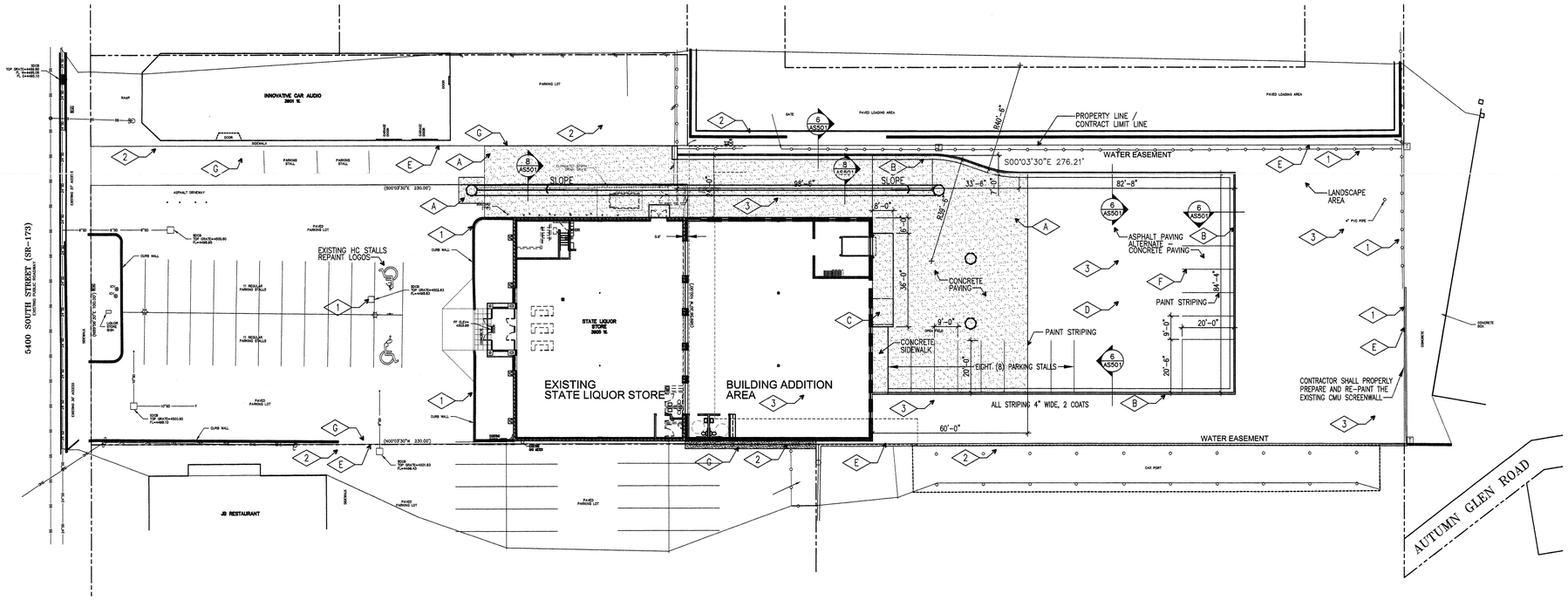
1. REFER TO SITE DEVELOPEMENT, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL SITE INFORMATION.
2. CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPENCIES TO THE CONTRACT DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL POINTS.
4. CONTRACTOR SHALL NOT PARK, STORE EQUIPMENT, OR USE THE EXISTING ROAD FOR ANY PURPOSE OTHER THAN ACCESS TO THE PROJECT SITE. CONTRACTOR SHALL NOT DISTURB OR USE ANY AREA OUTSIDE CONTRACT LIMIT LINE TO PARK OR STORE EQUIPMENT.
5. CONTRACTOR WILL MAINTAIN AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
6. ALL CUTTING, PATCHING, EXCAVATION AND BACKFILL DONE IN STREET SHALL BE DONE IN ACCORDANCE WITH UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
7. PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT PAVEMENT OR RETAINING WALLS.
8. PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.

REFERENCE NOTES

1. MAINTAIN AND PROTECT EXISTING SITE ELEMENTS TO REMAIN INCLUDING EXISTING LANDSCAPING, SIDEWALKS, STORM DRAIN BASIN, ASPHALT AND CURBS & GUTTERS. MAINTAIN AND PROTECT EXISTING LANDSCAPING TO REMAIN DURING CONSTRUCTION.
2. MAINTAIN AND PROTECT EXISTING SITE ELEMENTS ON ADJACENT PROPERITES IMMEDIATELY REPAIR OR REPLACE ANY DAMAGE TO ADJACENT PROPERTY CAUSED BY WORK ASSOCIATED WITH THIS CONTRACT.
3. REMOVE AND PROPERLY DISPOSE OF EXISTING LANDSCAPING INCLUDING ALL TREES AND SHRUBS ON SITE. SEE SOILS REPORT FOR THE DEPTH OF GRUBBING IN THIS AREA.
4. SAW CUT, REMOVE AND PROPERLY DISPOSE OF EXISTING CONCRETE CURB AND CURB WALLS ANDPREPARE FOR NEW PAVING
5. REMOVE AND PROPERLY DISPOSE OF ANY ASPHALT CONCRETE PAVING. REQUIRED FOR THE INSTALLATION OF NEW CONSTRUCTION. SAW CUT ALL EDGES.

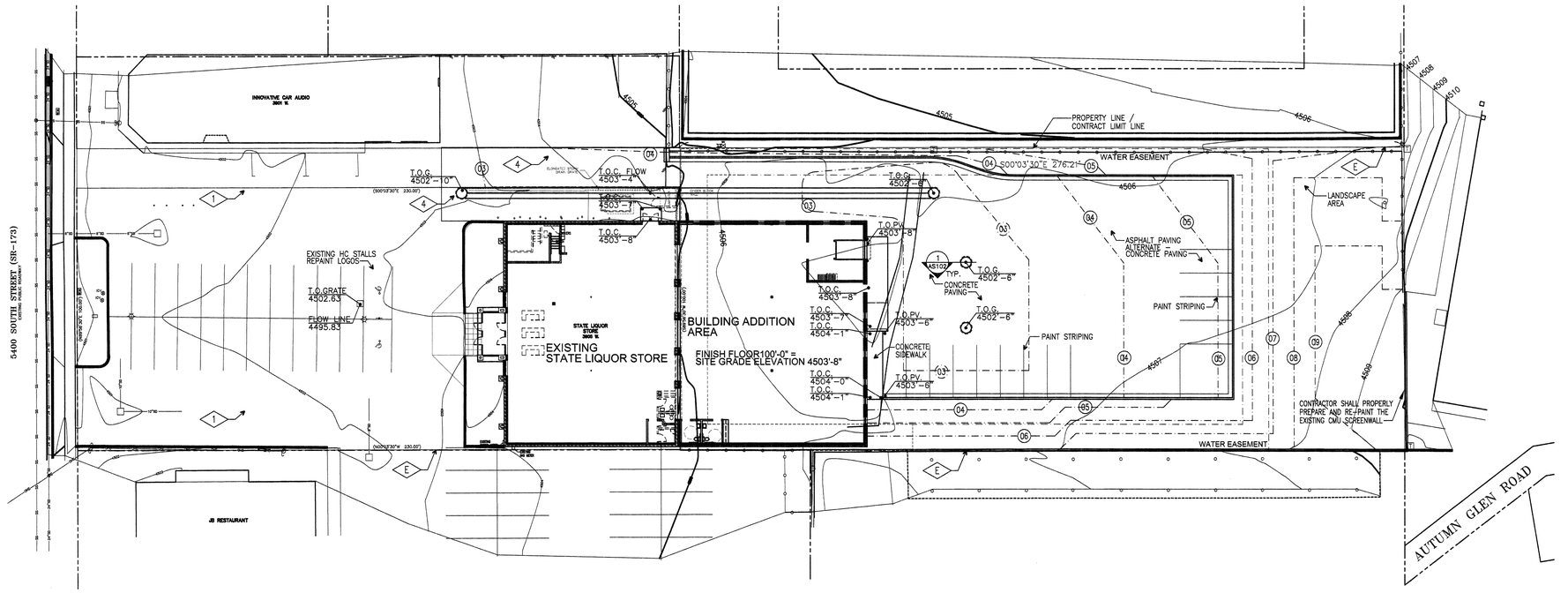
KEY NOTES

- A — NEW CONCRETE PAVING. SEE DETAIL 10/AS501 FOR PAVEMENT SECTION. SEE SOILS REPORT FOR DEPTH OF FILL AND COMPACTION REQUIREMENTS IN THIS AREA.
- B — NEW CONCRETE CURB & GUTTER. SEE DETAIL 6/AS501
- C — NEW 4" THICK CONCRETE SIDEWALK. SEE DETAILS 11, 12 & 13 SHEET AS501 ALIGN WITH EDGES, WIDTH AND ELEVATIONS OF EXISTING SIDEWALKS WHERE NEW AND EXISTING SIDEWALKS MEET.
  JOINTS AS NOTED BELOW TYPICAL UNLESS NOTED OTHERWISE
  CONTROL JOINT IN CONCRETE SIDEWALK: @ 5'-0" O.C. – SEE DETAIL 12/AS501.
  EXPANSION JOINT IN CONCRETE SIDEWALK @ 20'-0" O.C. – SEE DETAIL 13/AS501.
- D — NEW ASPHALT CONCRETE PAVING. SEE DETAIL 10/AS501 FOR PAVEMENT SECTION. SEE SOILS REPORT FOR DEPTH OF FILL AND COMPACTION REQUIREMENTS IN THIS AREA.
- E — PROPERTY LINE
- F — NEW PARKING STRIPING SEE DETAIL 3/AS501
- G — EXISTING ASPHALT ROADWAY. MAINTAIN AND PROTECT. KEEP CLEAR OF MUD AND DEBRIS FROM WORK UNDER THIS CONTRACT
- G — SAW CUT EXISTING ASPHALT TO ALLOW FOR NEW CONSTRUCTION INSTALL NEW ASPHALT PAVING TO MATCH EXISTING ASPHALT GRADES



SITE PLAN

SCALE: 1'–0" = 20'–0"
0 4' 8' 16'



SITE GRADING PLAN

SCALE: 1'–0" = 20'–0"
0 4' 8' 16'

TAYLORSVILLE LIQUOR STORE REMODEL & ADDITION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

SITE PLAN AND SITE GRADING PLAN

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH — FRANK N. MURDOCK — 124498 — LICENSED ARCHITECT

REVISION #	DATE:

DFCM PROJECT NO.: 06306030
CONST DOC
FILE NAME: ABCTV–AS101
PLOT SCALE: 1:240
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: APRIL 2008

AS 101

E1 **DETAIL** SCALE: 3/4" = 1'-0"

E2 **DETAIL** SCALE: 3/4" = 1'-0"

E3 **DETAIL** SCALE: 3/4" = 1'-0"

E4 **DETAIL** SCALE: 3/4" = 1'-0"

E5 **DETAIL** SCALE: 3/4" = 1'-0"

E6 **DETAIL** SCALE: 3/4" = 1'-0"

D1 **DETAIL** SCALE: 3/4" = 1'-0"

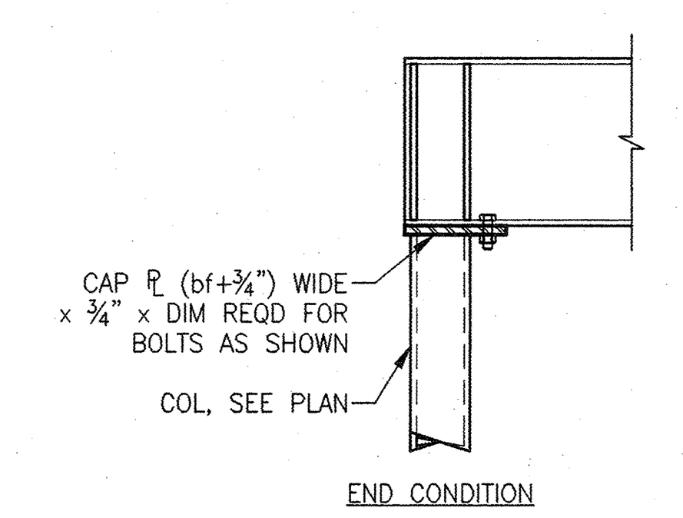
D2 **DETAIL** SCALE: 3/4" = 1'-0"

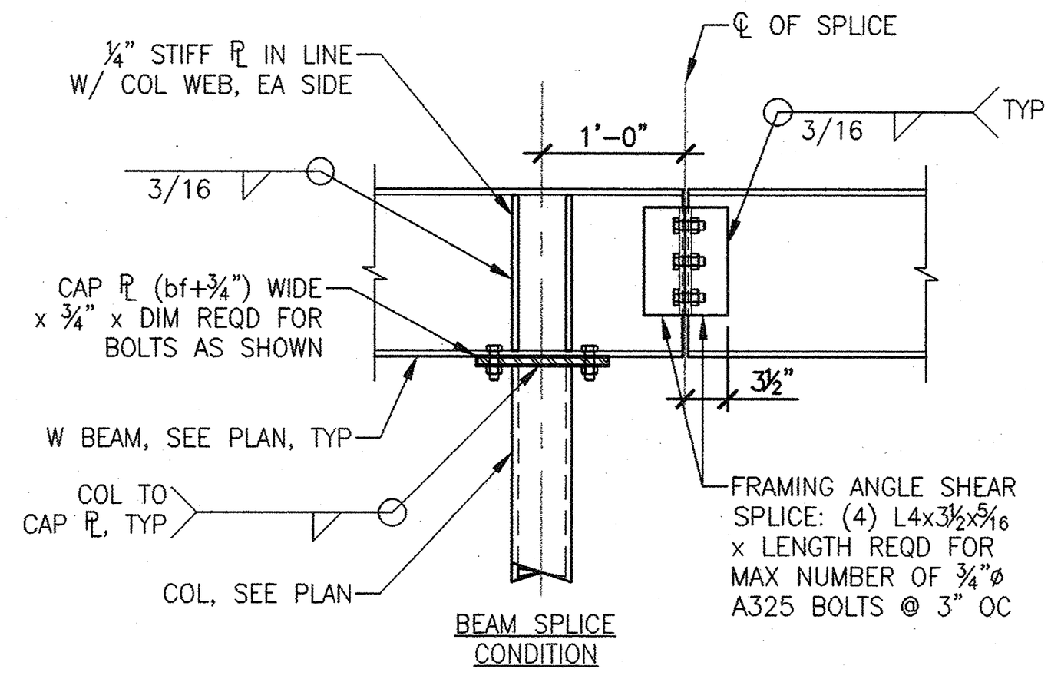
D3 **DETAIL** SCALE: 3/4" = 1'-0"

D4 **DETAIL** SCALE: 3/4" = 1'-0"

D5 **DETAIL** SCALE: 3/4" = 1'-0"

D6 SCALE: 3/4" = 1'-0"



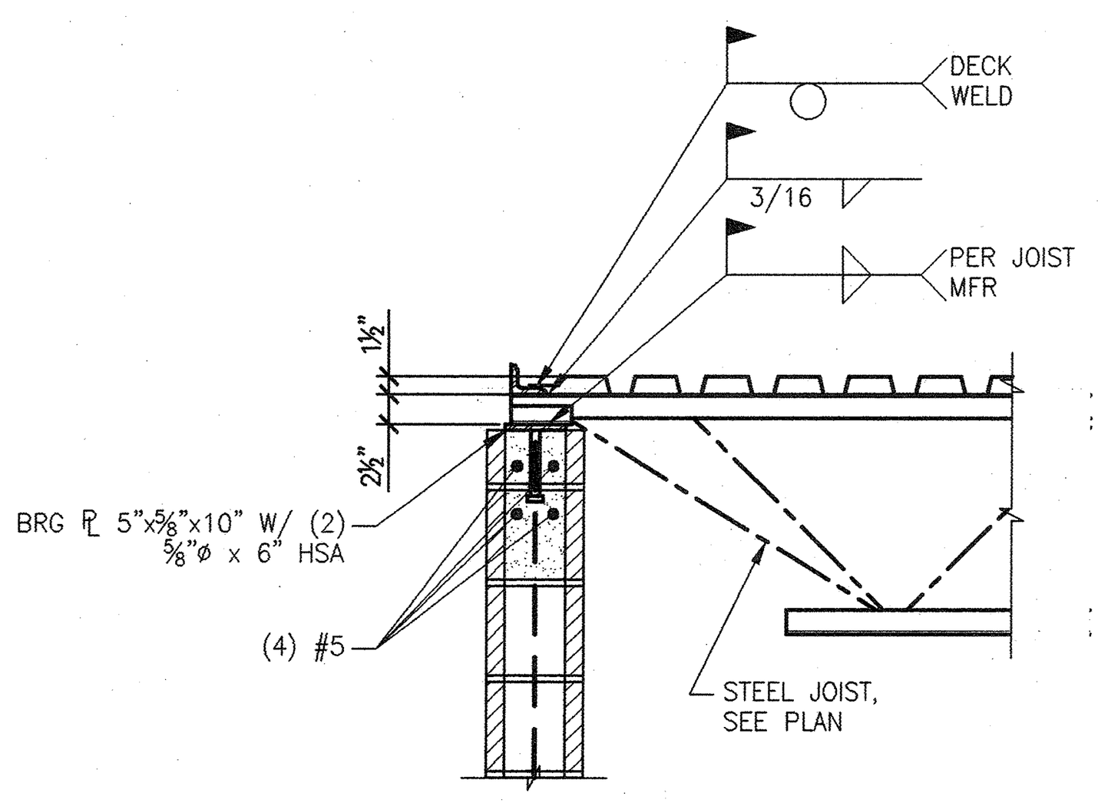


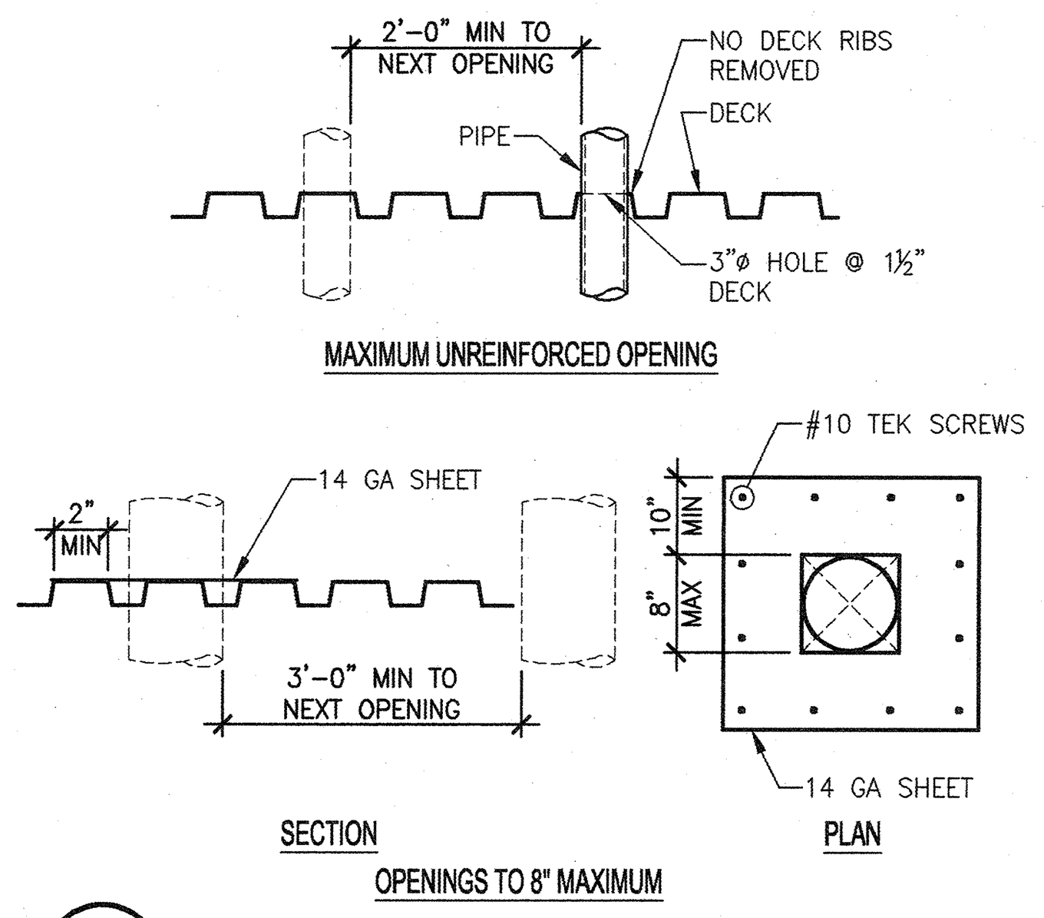
MASONRY BEAM SCHEDULE						
MARK	WIDTH	DEPTH	REINFORCEMENT			NOTES
			BOTTOM HORIZONTAL	TOP HORIZONTAL	VERTICAL	
MB-1	WALL	16"	(2) #5	–	MATCH WALL VERTS	TYPICAL UNO
MB-2	WALL	24"	(2) #5	(2) #5	#4 X ∫ @ 16"	–
MB-3	WALL	40"	(2) #5	(2) #5	#4 x ∫ @ 16"	

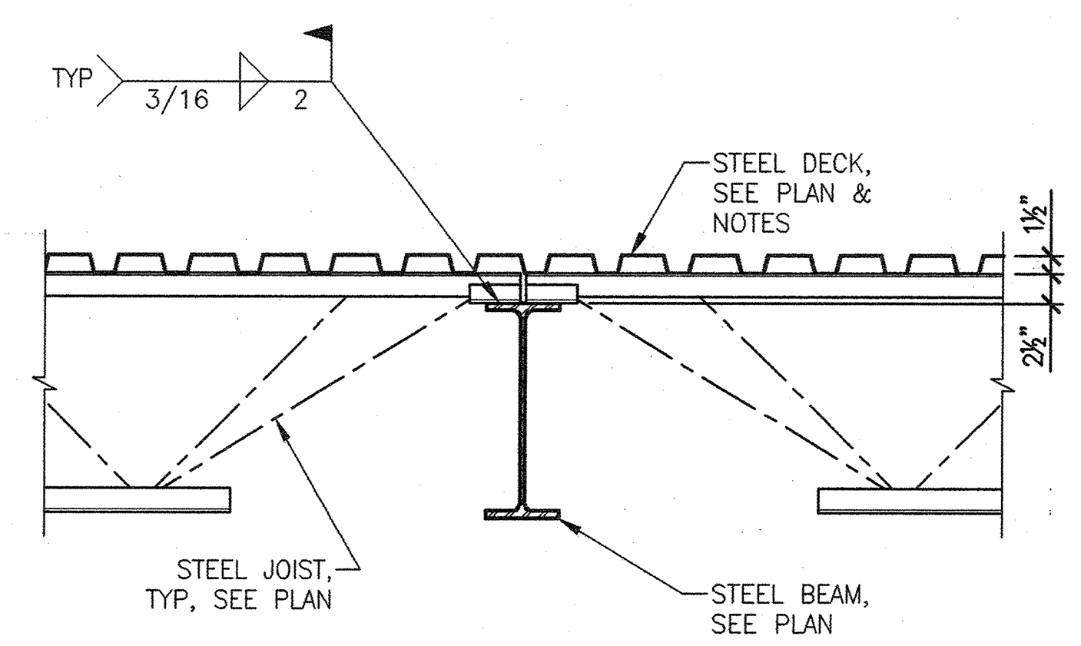
C1 **DETAIL** SCALE: 3/4" = 1'-0"

C2 **DETAIL** SCALE: 3/4" = 1'-0"

C3 4344_05 S-BMCON2 SCALE: 3/4" = 1'-0"

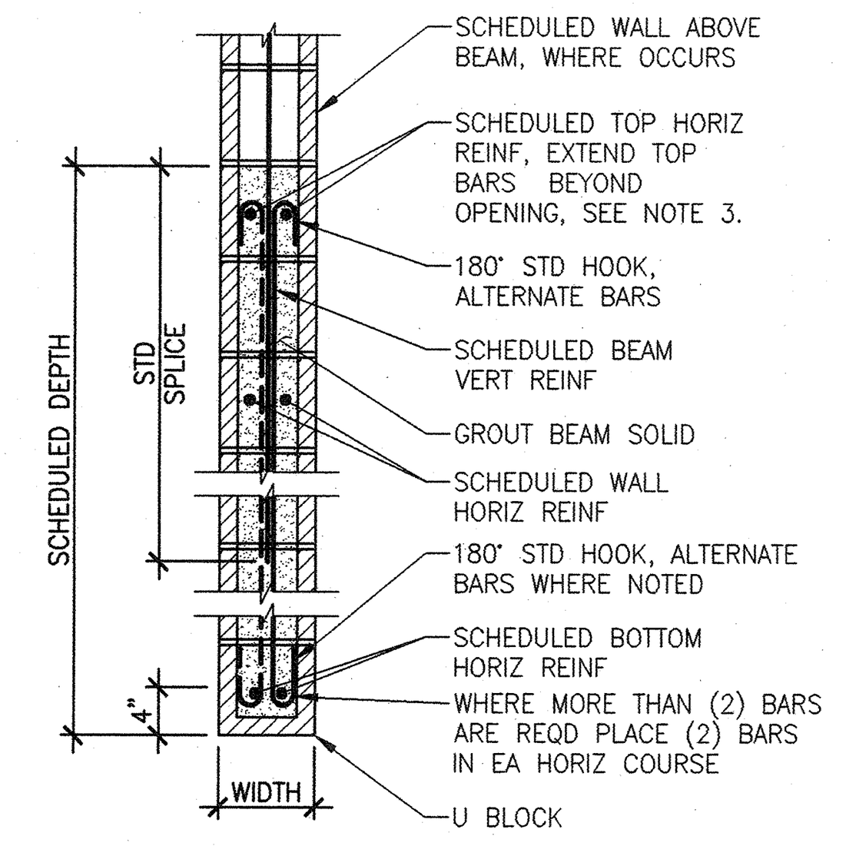






MASONRY BEAM NOTES:

1. VERTICAL WALL REINFORCEMENT (SIZE AND SPACING) SHALL BE USED, UNO. VERTICAL REINFORCEMENT ENDS WITH STD MASONRY HOOK AND LAP ABOVE BEAM. WHERE NO WALL OCCURS ABOVE BEAM OR LAP IS NOT POSSIBLE, PROVIDE 180° STD HOOK AT TOP.
2. GROUT BEAMS SOLID FOR DEPTH SHOWN IN SCHEDULE, PLUS AS PER DETAILS, STRUCURAL NOTES AND/OR WALL SCHEDULE.
3. TOP BARS SHALL EXTEND THE GREATER OF SUPPORTING COL LENGTH, 24", OR 48 BAR STD LAP BEYOND FACE OF SUPPORTS AND BE SPLICED WHEN NECESSARY AT MID SPAN. BOTTOM BARS SHALL EXTEND 24" INTO SUPPORTS AND BE SPLICED OVER SUPPORTS WHEN NECESSARY. WHERE THE EXTENSIONS NOTED CANNOT BE PROVIDED, HOOK BARS INTO SUPPORTS.
4. GROUT SIDES OF OPENING SOLID 1"/FT OF OPENING WIDTH, MINIMUM ONE 8" CELL FOR UP TO 8'-0" SPAN, (2) CELLS FOR UP TO 16'-0" SPAN, ETC, UNO. PROVIDE ONE VERTICAL BAR IN EACH GROUTED CELL. SEE PLAN AND SCHEDULE WHERE SPECIAL MASONRY COLS OCCUR AT JAMBS, BELOW BEAM BEARING OR OTHER LOCATIONS.
5. AT MECHANICAL OR OTHER OPENINGS IN WALLS USE MASONRY BEAMS OF SIMILAR SIZE AND REINFORCING AS SHOWN IN THOSE WALLS FOR EQUIVALENT WIDTH OPENINGS, UNO. NO MECHANICAL OR OTHER OPENINGS SHALL BE PLACED BELOW BEAM BEARING OR THROUGH SOLID GROUTED MASONRY BEAM DEPTH.
6. NO DUCTS, OPENINGS, OR PENETRATIONS SHALL OCCUR THROUGH BEAMS UNLESS NOTED ON STRUCTURAL DRAWINGS.
7. MASONRY WALLS ABOVE BEAMS, WHERE OCCUR SHALL HAVE MINIMUM REINFORCING AS PER STRUCTURAL NOTES, UNO.
8. REINFORCING INDICATED IN BEAM SCHEDULE IS IN ADDITION TO STANDARD WALL HORIZONTAL AND VERTICAL REINFORCING.



MASONRY BEAM DETAIL

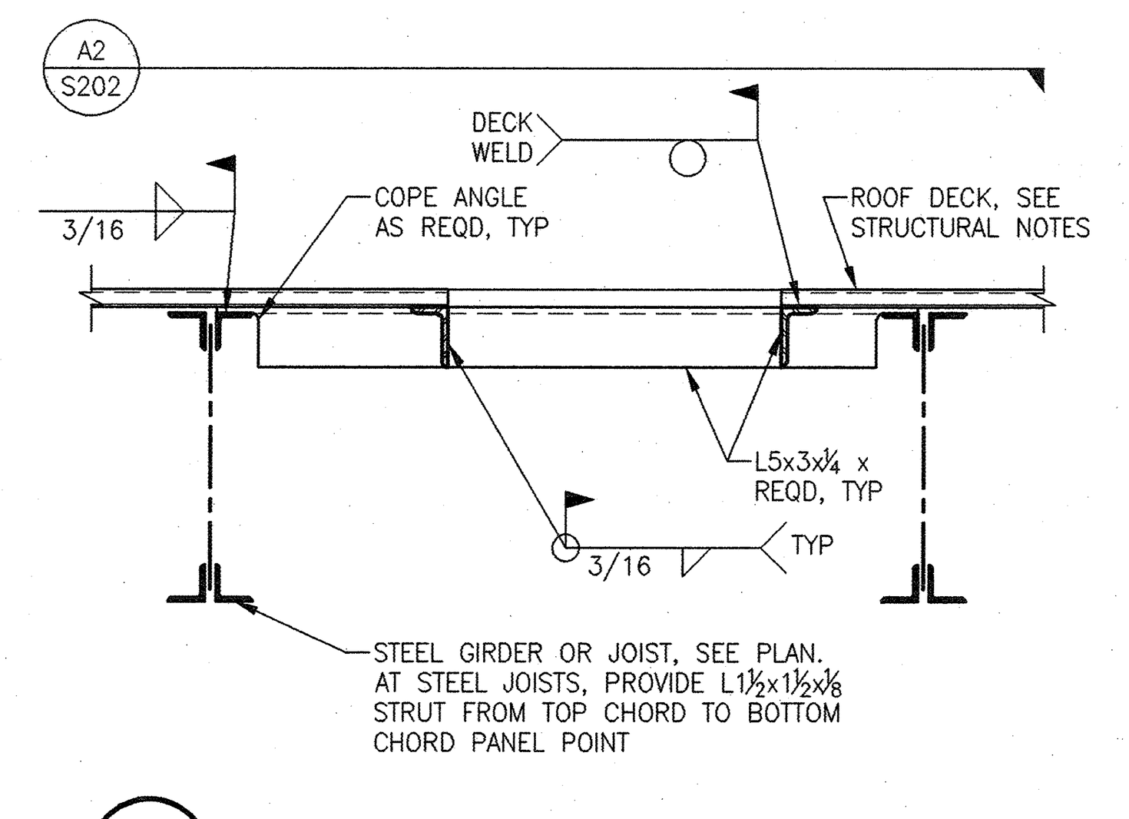
B1 **DETAIL** SCALE: 3/4" = 1'-0"

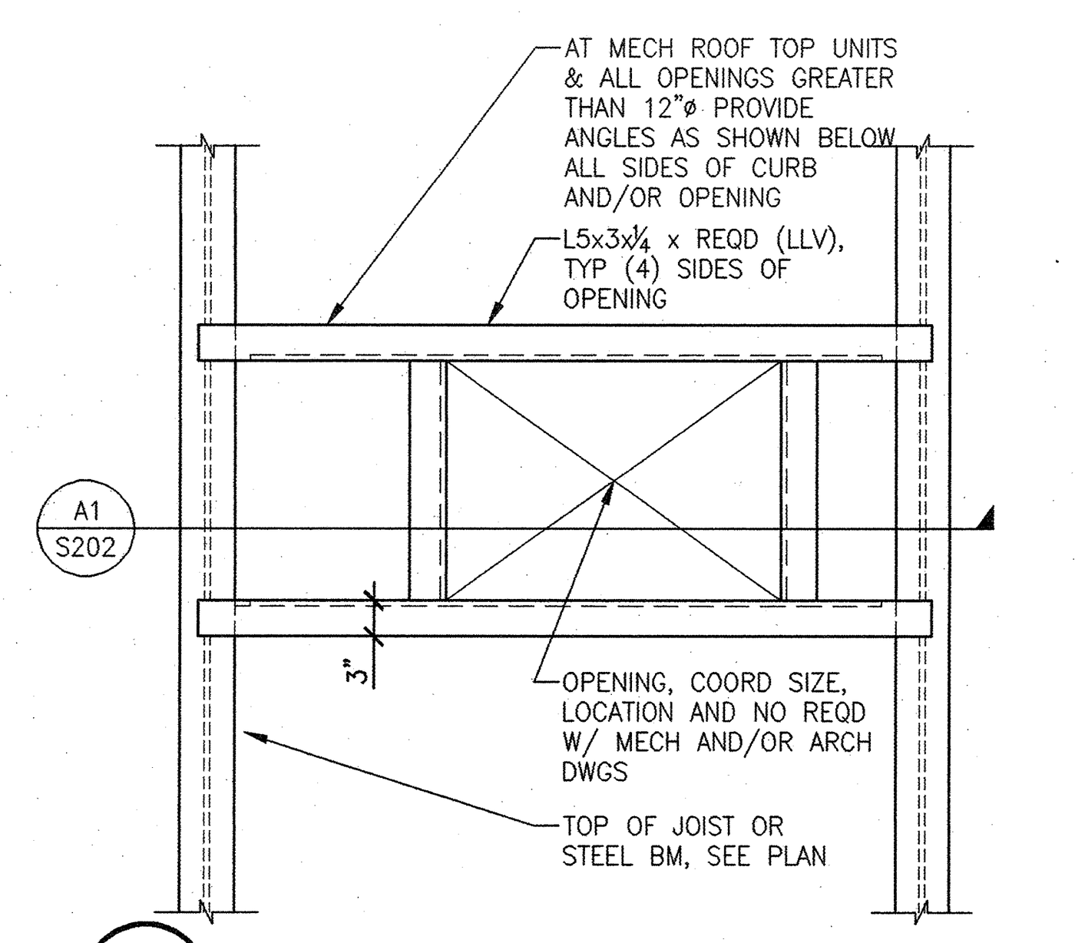
B2 5246_10 SCALE: 3/4" = 1'-0"

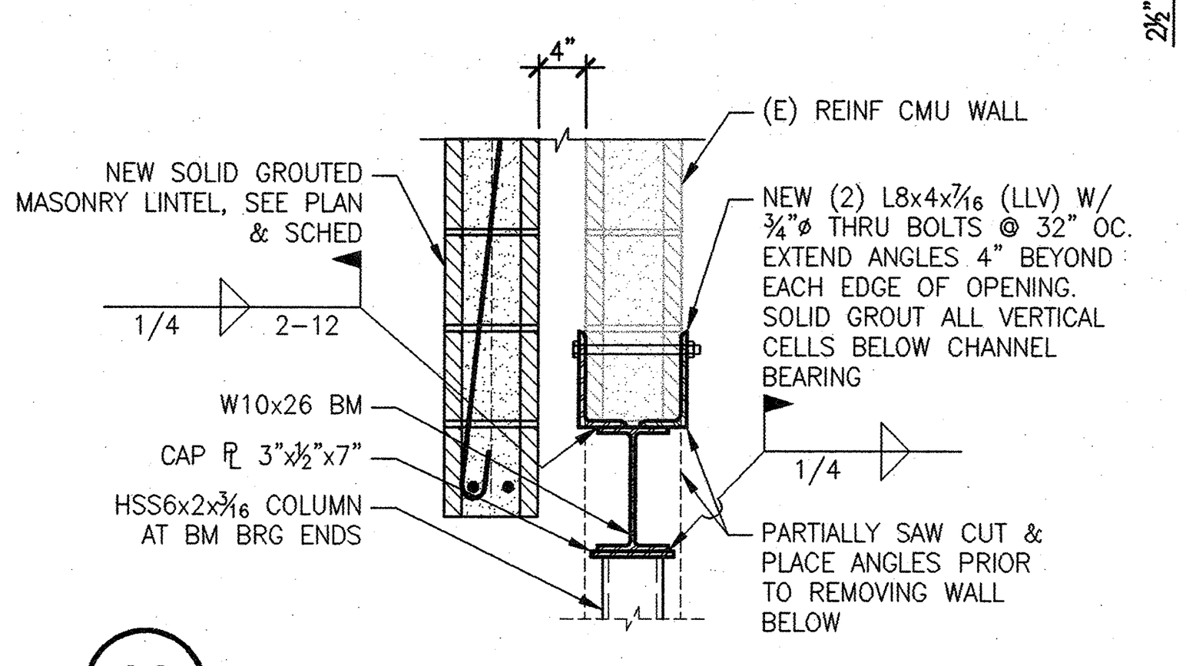
B3 4677_01 SCALE: NONE

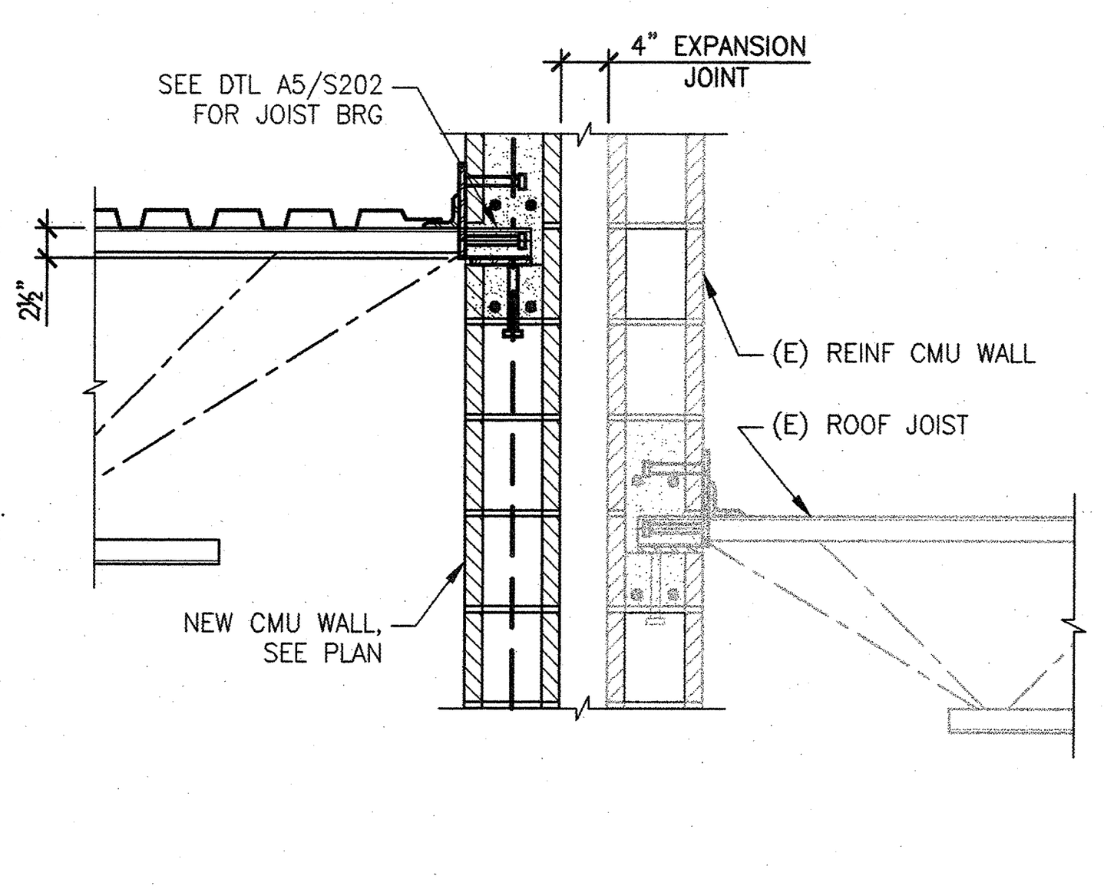
B4 4445_04 SCALE: 3/4" = 1'-0"

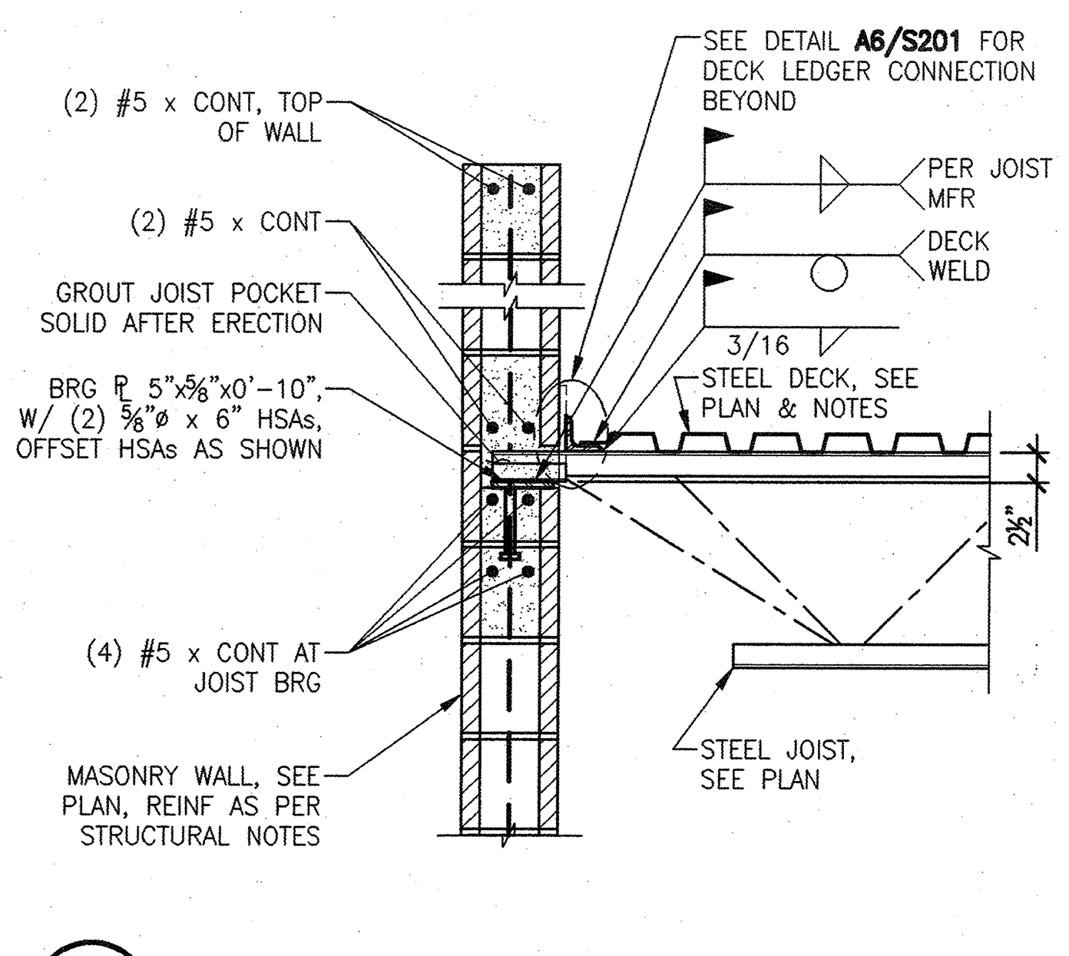
B5 **MASONRY BEAM SCHEDULE** 5410.00 SCALE: NONE

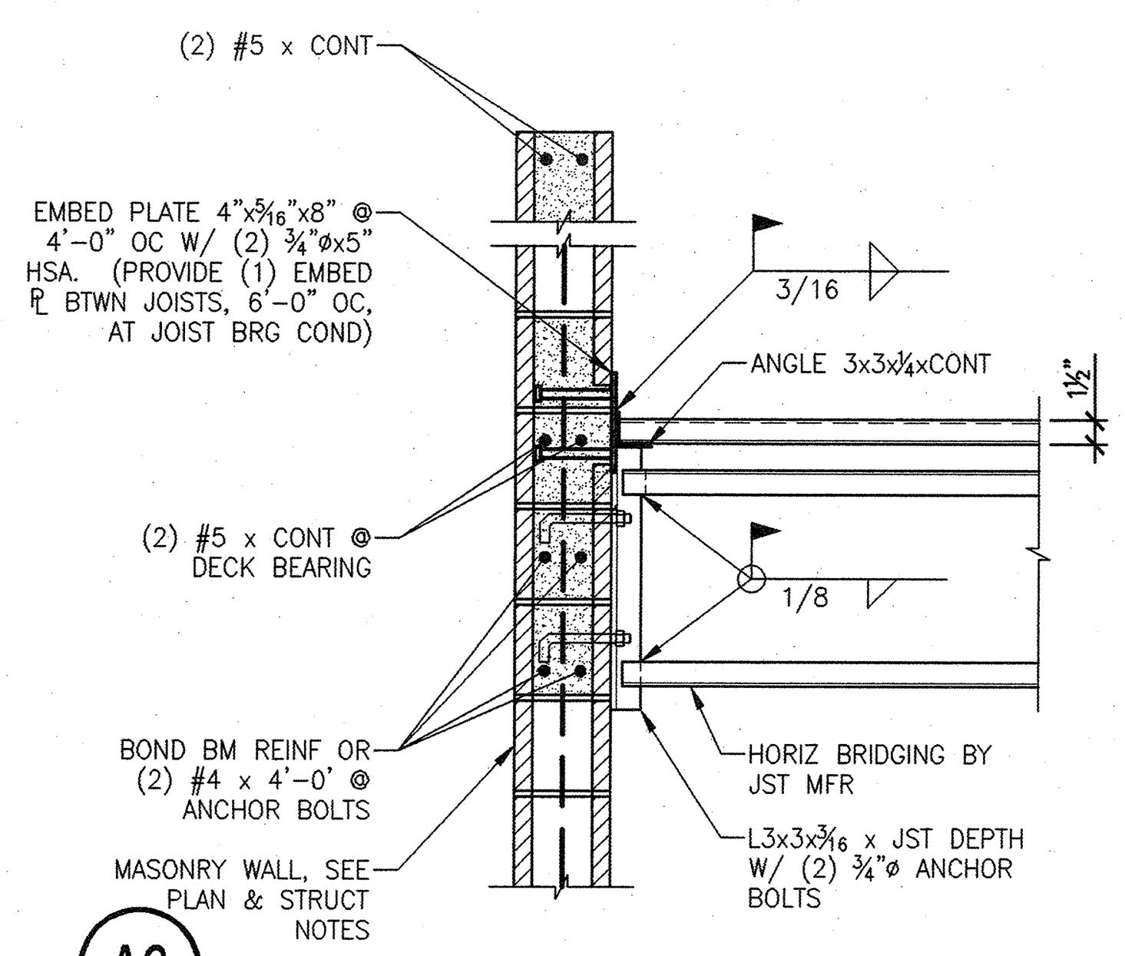












A1 4546_02 SCALE: NONE

A2 4546_03 SCALE: NONE

A3 5243.01 LINTEL SCALE: 3/4" = 1'-0"

A4 SCALE: 3/4" = 1'-0"

A5 4552.01 SCALE: 3/4" = 1'-0"

A6 5246_04 Bridging To Wall SCALE: 3/4" = 1'-0"

CALDER RICHARDS
CONSULTING ENGINEERS
2015 SOUTH 1100 EAST, SALT LAKE CITY, UT 84106
T: 801.466.1699 F: 801.467.2495

TAYLORSVILLE LIQUOR STORE REMODEL & ADDITION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

FRANK N MURDOCK JR Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STRUCTURAL DETAILS

LICENSED PROFESSIONAL ENGINEER No. 191304 SHAUN A. PACKER STATE OF UTAH 3-18-08

REVISION # DATE:

PERMIT DRAWINGS
FILE NAME: S202
PLOT SCALE: 3/4"=1'-0"
DRAWN BY: JRS
CHECKED BY: SP
DATE: 03/18/08

S202

SITE INFORMATION

PARKING:

PARKING STALLS	27 STALLS
ACCESSIBLE STALLS	2 STALLS
PARKING TOTALS	29 STALLS

SITE DRAWINGS

SEE SHEET AS101 FOR GENERAL SITE INFORMATION AND DIMENSIONS
SEE SHEET AS102 FOR SITE GRADING AND STORM SEWER INFORMATION
SEE SHEET AS103 FOR SITE UTILITY INFORMATION
SEE SHEET AS501 FOR SITE DETAIL INFORMATION

SITE PLAN LEGEND

- CATCH BASIN
- STORM DRAIN MAN HOLE
- POWER POLE
- WATER VALVE
- ELECTRIC BOX
- FIRE HYDRANT
- SANITARY SEWER MAN HOLE
- LIGHT POST
- STREET LIGHT BOX
- GAS METER
- TELEPHONE BOX
- PL — PROPERTY LINE
- L — LANDSCAPE AREA
- SW — SIDEWALK
- OVERHEAD TRANSMISSION LINE
- UNDERGROUND POWER
- SS — SANITARY SEWER
- W — WATER LINE
- T — TELEPHONE LINE
- G — GAS LINE
- C — CABLE T.V.
- PARKING STALLS
- FENCE
- 4434 — EXISTING GRADE CONTOUR
- 31 — NEW GRADE CONTOUR
- CENTER LINE OF ROAD
- X — X — NEW SECURITY FENCE – SEE 22/SD-4
- A / B — SIGN TYPES – SEE 2/SD-4
- NEW CONCRETE PAVING AND SIDEWALKS
- ROADWAY, SERVICE AND DOCK AREA (ASPHALT)
- 2 – 4" PVC PIPE SLEEVE

T.O.G	TOP OF GRATE
I.E.	INVERT ELEVATION
T.O.SW	TOP OS SIDEWALK
T.O.PV	TOP OF PAVEMENT
T.O.C.	TOP OF CONCRETE

GENERAL NOTES

1. REFER TO SITE DEVELOPMENT, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL SITE INFORMATION.
2. CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES TO THE CONTRACT DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AT ALL POINTS.
4. CONTRACTOR SHALL NOT PARK, STORE EQUIPMENT, OR USE THE EXISTING ROAD FOR ANY PURPOSE OTHER THAN ACCESS TO THE PROJECT SITE. CONTRACTOR SHALL NOT DISTURB OR USE ANY AREA OUTSIDE CONTRACT LIMIT LINE TO PARK OR STORE EQUIPMENT. UNLESS OTHERWISE NOTED, THE PROPERTY LINE SHALL FORM THE BOUNDARY OF THE CONTRACT LIMIT LINE.
5. CONTRACTOR WILL MAINTAIN AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
6. ALL CUTTING, PATCHING, EXCAVATION AND BACKFILL DONE IN STREET SHALL BE DONE IN ACCORDANCE WITH UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
7. PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT PAVEMENT OR RETAINING WALLS.
8. PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.

UTILITY FEES

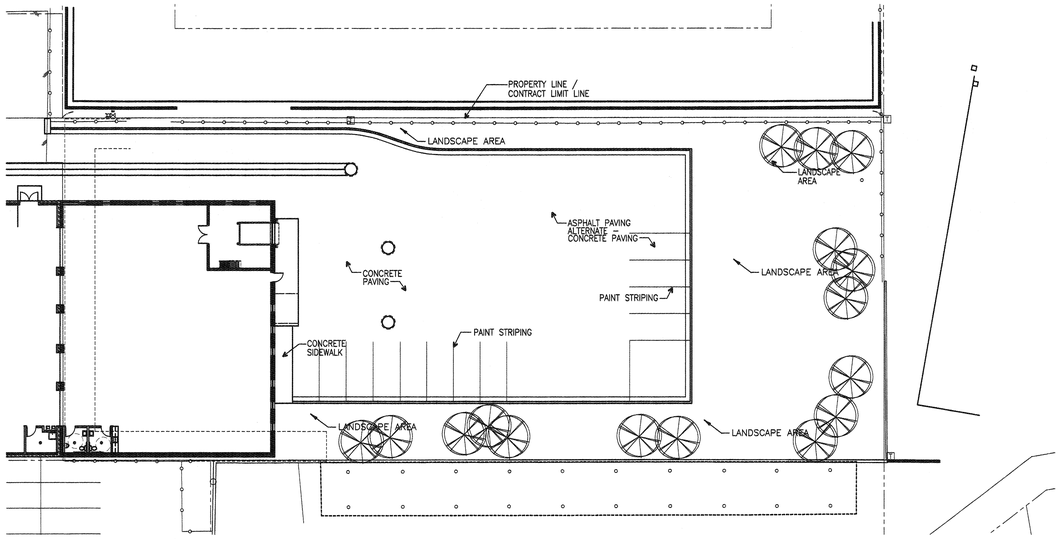
1. THE OWNER SHALL BE RESPONSIBLE FOR ALL UTILITY CONNECTION AND PERMIT FEES. CHARGES FOR IMPACT FEES BY UTILITIES OR MUNICIPALITIES ARE NOT TO BE CHARGED TO OR PAID BY THE CONTRACTOR OR THE STATE OF UTAH FOR STATE FACILITIES.

LANDSCAPE SPRINKLING CONNECTION

1. PROVIDE 3/4" WATER LINE FROM EXISTING BUILDING WATER SERVICE TO THE SOUTH WEST CORNER OF THE ADDITION FOR USE BY THE LANDSCAPE SPRINKLING SYSTEM. PROVIDE SHUTOFF VALVE TO LINE INSIDE THE BUILDING.

WATER LINE RELOCATION

1. ALL WORK SHALL BE COORDINATED WITH THE TAYLORSVILLE BENNION IMPROVEMENT DISTRICT. ALL WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE TAYLORSVILLE BENNION IMPROVEMENT DISTRICT STANDARDS AND WILL BE SUBJECT TO REVIEW BY THE TAYLORSVILLE BENNION IMPROVEMENT DISTRICT.



LANDSCAPE PLAN

SCALE: 1'–0" = 20'–0"
0 4' 8' 16'

11 ADDITIONAL PARKING STALLS

LANDSCAPING PLAN GENERAL NOTES

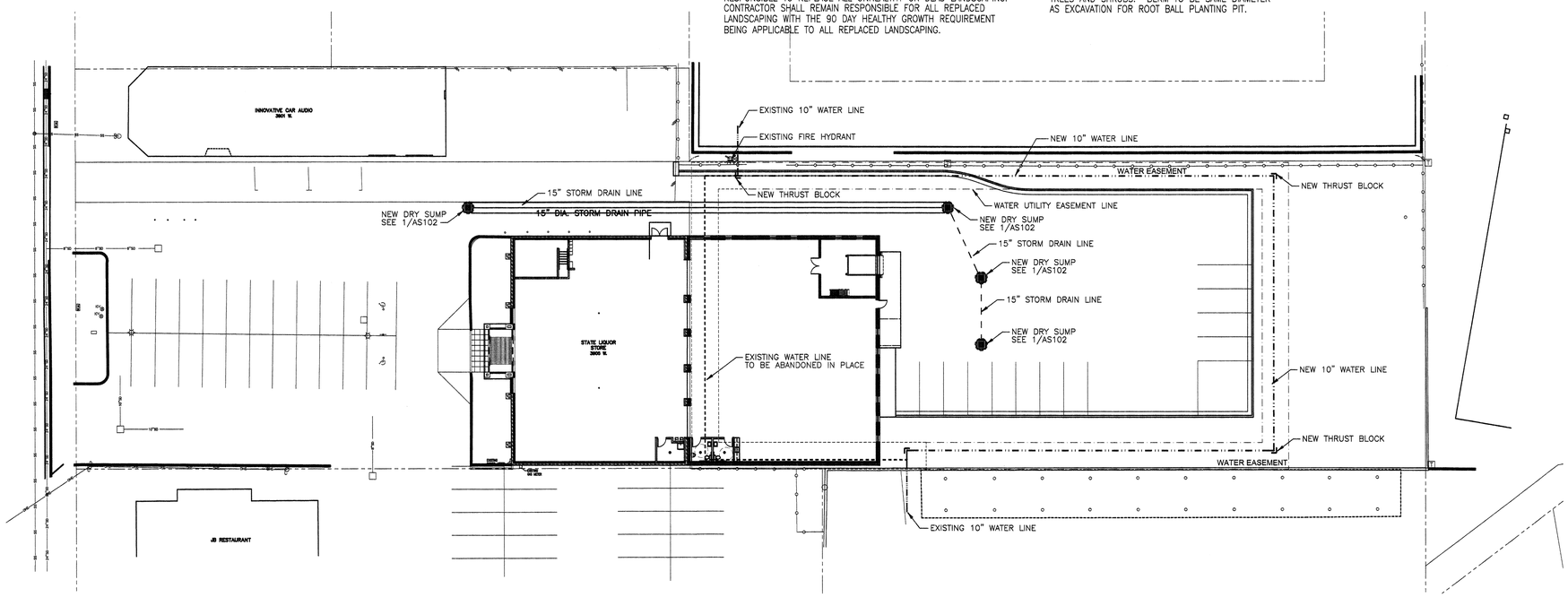
1. ALL AREAS NOTED AS "SOD" (GRASS) OR "LANDSCAPED AREA", SHALL BE PROVIDED WITH A LANDSCAPE IRRIGATION SYSTEM. SLEEVES SHALL BE PROVIDED UNDER PAVED AREAS TO FACILITATE THE IRRIGATION SYSTEM. SEE SPECIFICATIONS FOR REQUIREMENTS.
2. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR SLEEVES UNDER PAVED AREAS. WORK SHALL BE COORDINATED WITH PAVING CONTRACTOR.
3. INSTALL A MINIMUM OF 4" OF IMPORTED TOP SOIL AT ALL LANDSCAPED AREAS.
4. PROVIDE AND INSTALL COMPLETE AUTOMATIC LANDSCAPE SPRINKLING SYSTEM TO ALL LAWN AND LANDSCAPED AREAS. SEE SPECIFICATIONS FOR DETAILED SYSTEM REQUIREMENTS.
5. LANDSCAPING SHALL NOT BE CONSIDERED TO BE COMPLETE UNTIL AFTER 90 DAYS OF HEALTHY GROWTH. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ALL UNHEALTHY OR DEAD LANDSCAPING. CONTRACTOR SHALL REMAIN RESPONSIBLE FOR ALL REPLACED LANDSCAPING WITH THE 90 DAY HEALTHY GROWTH REQUIREMENT BEING APPLICABLE TO ALL REPLACED LANDSCAPING.
6. MINIMUM EXCAVATION FOR TREES SHALL BE A DIAMETER OF 2'–0" GREATER THAN THE ROOT BALL, AND 6" DEEPER THAN THE ROOT BALL. BACKFILL HOLE WITH TOPSOIL. COVER AREA INSIDE EDGING WITH BARK CHIPS (3" DEEP).
7. COMPLETELY COVER AREA AROUND SHRUB, TREE, AND GROUNDCOVER PLANTINGS WITH A 4" THICK LAYER OF BARK CHIPS OVER LANDSCAPE FABRIC.
8. STAKE AND GUY SUPPORT ALL TREES. PROVIDE TREE TRUNK PROTECTION PLASTIC SLEEVES AT ALL TREES NOT PLANTED WITH SHRUBS AROUND THEIR BASE.
9. PROVIDE FLEXIBLE EDGING AND BARK CHIPS AT ALL TREES IN LAWN AREAS. PROVIDE 4' DIAMETER EDGING CIRCLE, AT TREES IN LAWN AREAS, WHERE NO EDGING IS OTHERWISE NOTED.
10. CONSTRUCT A 4" HIGH EARTHEN BERM AROUND ALL TREES AND SHRUBS. BERM TO BE SAME DIAMETER AS EXCAVATION FOR ROOT BALL PLANTING PIT.

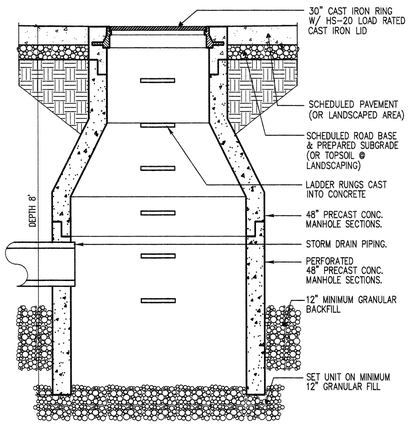
LANDSCAPING PLAN LEGEND

GRASS

SOD = BLUEGRASS VARIETIES
SEED = BLUE GAMA GRASS
BOUTELOUA GRACILIS

QA — "QUAKING ASPEN"
POPULUS TREMULOIDES
3" CALIPER





NOTE: DRY SUMP MUST BE INSTALLED IN AN AREA WITH SOIL OF GOOD PERCOLATION. COORDINATE DEPTH OF DRY SUMP w/ SOIL CONDITIONS AND FREE DRAINING SOIL STRATA.

1 / AS102 DRY SUMP SECTION
SCALE: 3/4" = 1'–0"
SITE-015

SITE UTILITY PLAN

SCALE: 1'–0" = 20'–0"
0 4' 8' 16'

11 ADDITIONAL PARKING STALLS

TAYLORSVILLE LIQUOR STORE REMODEL & ADDITION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

SITE UTILITY PLAN & LANSCAPE PLAN

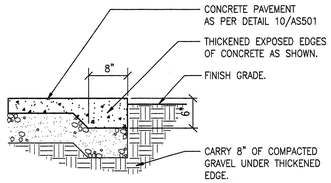
FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH — FRANK N. MURDOCK — 124498 — REGISTERED ARCHITECT

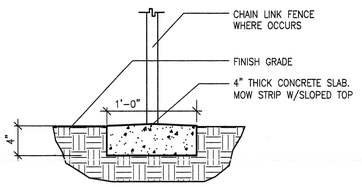
REVISION # DATE:

DFCM PROJECT NO.:
06306030
CONST DOC
FILE NAME: ABCTV-AS102
PLOT SCALE: 1:240
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: APRIL 2008

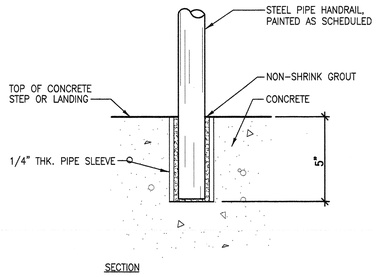
AS 102



25 AS501 CONCRETE EDGE DETAIL
SCALE: 1" = 1'-0"



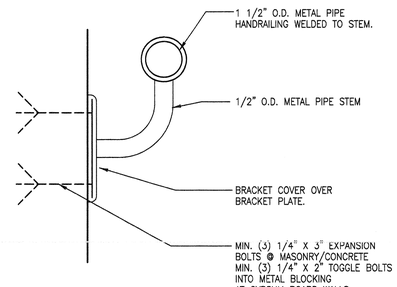
24 AS501 CONCRETE MOW STRIP DETAIL
SCALE: NOT TO SCALE



23 AS501 PIPE RAIL ANCHORING DETAIL
SCALE: NOT TO SCALE

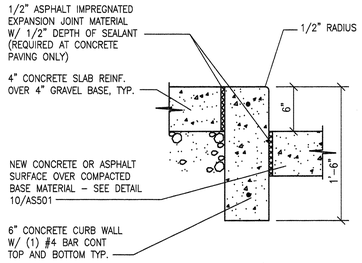
22 AS501 NOT USED
SCALE: NOT TO SCALE

21 AS501 NOT USED
SCALE: NOT TO SCALE



20 AS501 HANDRAIL MOUNTING DETAIL
SCALE: NOT TO SCALE

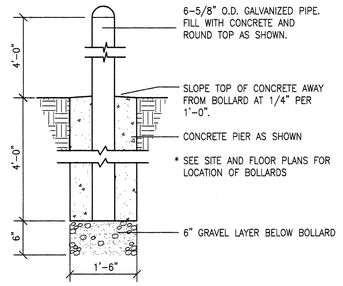
16 AS501 NOT USED
SCALE: NOT TO SCALE



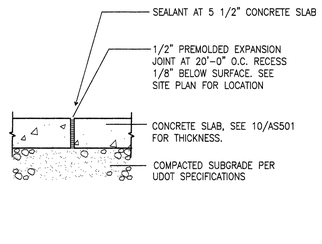
17 AS501 CONCRETE CURB DETAIL
SCALE: NOT TO SCALE

18 AS501 NOT USED
SCALE: NOT TO SCALE

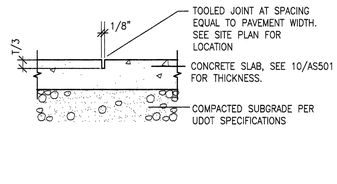
19 AS501 NOT USED
SCALE: NOT TO SCALE



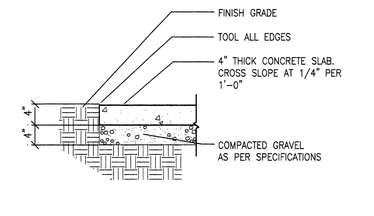
14 AS501 BOLLARD DETAIL
SCALE: 3/4" = 1'-0"



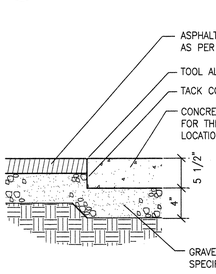
13 AS501 EXPANSION JOINT DETAIL (EJ)
SCALE: 1-1/2" = 1'-0"



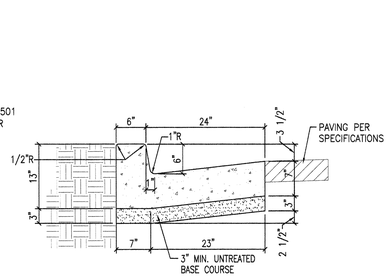
12 AS501 CONTROL JOINT DETAIL (CJ)
SCALE: 1-1/2" = 1'-0"



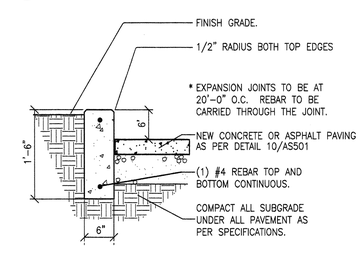
11 AS501 CONCRETE SIDEWALK DETAIL
SCALE: 1" = 1'-0"



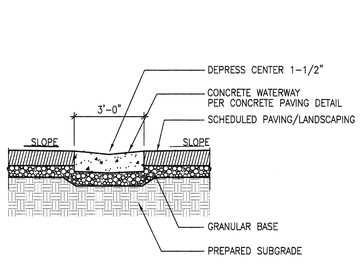
5 AS501 CONCRETE/ASPHALT EDGE
SCALE: NOT TO SCALE



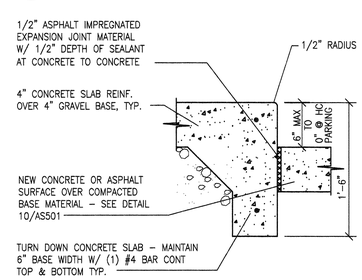
6 AS501 CURB AND GUTTER DETAIL
SCALE: NOT TO SCALE



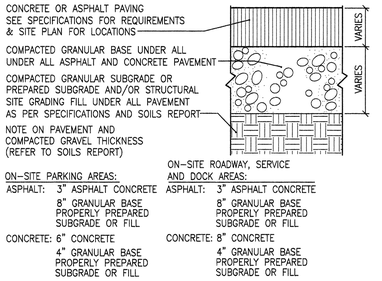
7 AS501 CONCRETE CURB DETAIL
SCALE: 1" = 1'-0"



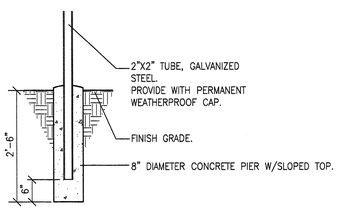
8 AS501 CONCRETE WATERWAY DETAIL
SCALE: NOT TO SCALE



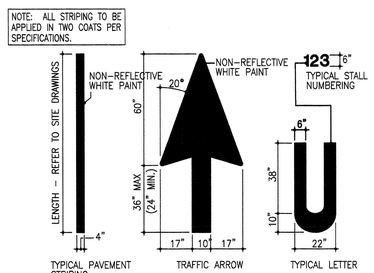
9 AS501 CURB TO SIDEWALK DETAIL
SCALE: 1-1/2" = 1'-0"



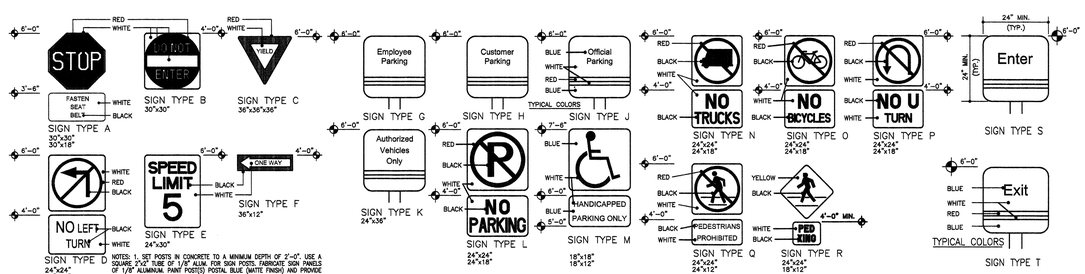
10 AS501 PAVEMENT SECTIONS
SCALE: 3" = 1'-0"



4 AS501 EXTERIOR SIGNAGE SUPPORT
SCALE: 3/4" = 1'-0"



3 AS501 PAVEMENT MARKINGS
SCALE: NOT TO SCALE



2 AS501 EXTERIOR TRAFFIC SIGNAGE
SCALE: NOT TO SCALE

1 AS501 NOT USED
SCALE: NONE

TAYLORSVILLE LIQUOR STORE EXPANSION AND REMODEL

DEPT OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH

SITE DETAILS

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH
FRANK N. MURDOCK
124498
LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
06306030
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FILE NAME: ABCTV-AS501
PLOT SCALE: 1:240
DRAWN BY: STAFF
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DATE: APRIL 2008

AS
501

PHASING

IT IS THE INTENT OF THE OWNER THAT THE EXISTING FACILITY REMAIN OPEN FOR AS LONG AS POSSIBLE DURING CONSTRUCTION. THE CONTRACTOR IS TO COMPLETE THE CONSTRUCTION OF THE NEW BUILDING SHELL INCLUDING THE CONCRETE FOOTINGS, FOUNDATIONS AND FLOOR SLAB, MASONRY WALLS, STEEL ROOF JOIST AND DECK AND ROUGH HVAC AND ELECTRICAL PRIOR TO BREACHING THE WALL INTO THE EXISTING FACILITY. UPON COMPLETION OF THIS WORK AND WITH A MINIMUM TWO WEEK NOTICE, THE EXISTING FACILITY WILL BE CLOSED AND ALL PRODUCT REMOVED FROM THE STORE. THE CONTRACTOR WILL THEN HAVE FULL ACCESS TO THE EXISTING BUILDING UNTIL THE REMAINDER OF THE WORK IS COMPLETE.

NOTES

1. PROVIDE SIGNAGE ABOVE ENTRY DOORS STATING "THESE DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS".
2. PROVIDE SIGNAGE DESIGNATING "PUBLIC RESTROOMS" AT LOCATION TO BE DETERMINED BY ARCHITECT.
3. CONTRACTOR TO PROVIDE AND INSTALL 25 L.F. OF CHAIR RAIL (INPRO CORP., NORTHERN HARDWOODS CR2 OR EQUAL) IN LOCATIONS AND AT HEIGHTS TO BE DETERMINED BY THE ARCHITECT.

WALL TYPE

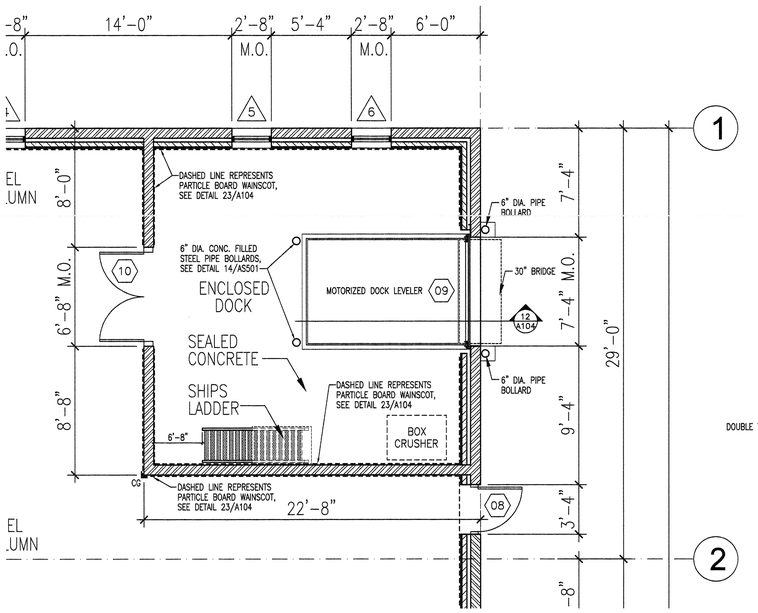
1

BRACE TO ROOF DECK @ 4' O.C.

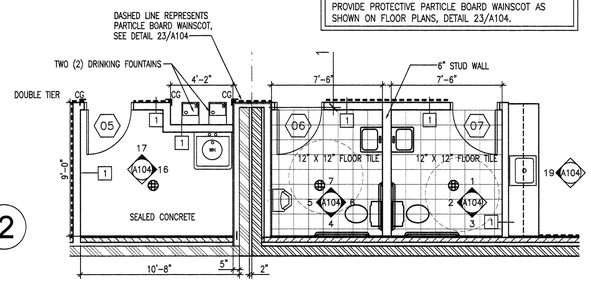
3 5/8" STUD INTERIOR PARTITION WALL:
PAINTED 5/8" GYP. BD. BOTH SIDES OF 3 5/8" METAL STUDS @ 16" ON CENTER, FROM FLOOR TO ROOF DECK OR TO 6" ABOVE CEILING WHERE CEILING OCCURS. PROVIDE DIAGONAL BRACING TO ROOF DECK @ 4' O.C. WHERE CEILING OCCURS. GYP BD @ WALL TO STOP @ GYP BD CEILING WHERE OCCURS.
PROVIDE TILE WAINSCOT AS SHOWN ON PLANS.
INSTALL WATER-RESISTANT GYP BD @ ALL TOILET ROOMS.
PROVIDE PROTECTIVE PARTICLE BOARD WAINSCOT AS SHOWN ON FLOOR PLANS, DETAIL 23/A104.

DEMOLITION NOTES

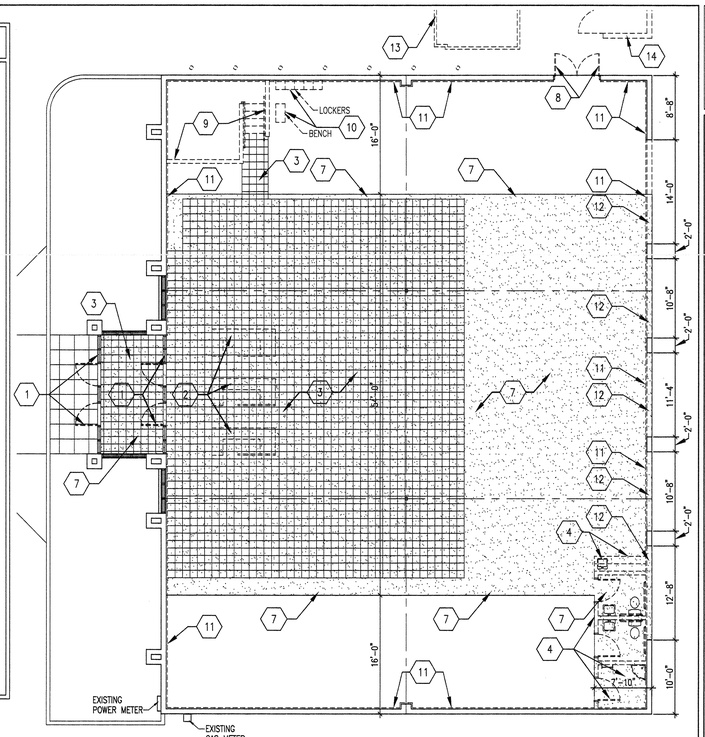
1. REMOVE FOUR (4) EXISTING SWINGING ENTRANCE DOORS, FRAMES AND STOREFRONT SYSTEM.
2. REMOVE AND DISPOSE OF EXISTING CHECK-OUT COUNTERS.
3. REMOVE AND DISPOSE OF EXISTING FLOOR TILE.
4. REMOVE AND DISPOSE OF EXISTING WALLS, CEILINGS, CABINETS AND PLUMBING FIXTURES AND ACCESSORIES. TERMINATE ALL ELECTRICAL AND HVAC EQUIPMENT.
5. REMOVE AND DISPOSE OF EXISTING SINK AND WALL AND BASE COUNTER UNITS IN BREAK AREA. TERMINATE ALL UTILITES PER PLUMBING AND ELECTRICAL DRAWINGS.
6. REMOVE AND DISPOSE OF EXISTING CEILING MATERIALS AND WALLS AND DOORS.
7. SAW CUT AND REMOVE EXISTING CONCRETE SLAB (SHOWN HATCHED). PREPARE SUB-SURFACE FOR NEW 5" THICK CONCRETE SLAB WITH 2" RECESS FOR NEW THICK SET TILE.
8. REMOVE AND DISPOSE OF EXISTING DOUBLE DOORS. MAINTAIN AND PROTECT EXISTING HOLLOW METAL DOOR FRAME.
9. REMOVE EXISTING ELEVATED OFFICE WALLS, FLOOR, STAIRWAY AND HANDRAILS.
10. REMOVE EXISTING PERSONNEL LOCKERS AND BENCH, OWNER TO RETAIN.
11. REMOVE AND DISPOSE OF EXISTING GYPBOARD AND FURRING TO EXPOSE EXISTING CMU WALL.
12. REMOVE SECTION OF EXISTING CMU WALL AND FOUNDATION TO CREATE OPENING INTO NEW ADDITION. SEE STRUCTURAL SHEETS.
13. REMOVE EXISTING SCISSOR LIFT, OWNER TO RETAIN.
14. REMOVE AND DISPOSE OF EXISTING DUMPSTER ENCLOSURE.



2 A101 ENLARGED FLOOR PLAN AT ENCLOSED DOCK
SCALE: 1/4" = 1'-0"



3 A101 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



4 A101 DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"

1 A101 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"

FLOOR PLAN - 12,030 GROSS S.F.
SCALE: 1/8" = 1'-0"
0 2' 4' 8' 16'

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FLOOR PLAN, ENLARGED FLOOR PLANS, DEMOLITION FLOOR PLAN

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STATE OF UTAH · FRANK N. MURDOCK · 124498 · LICENSED ARCHITECT

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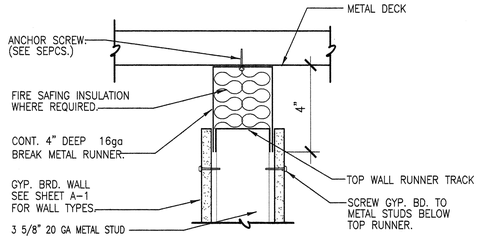
A 101

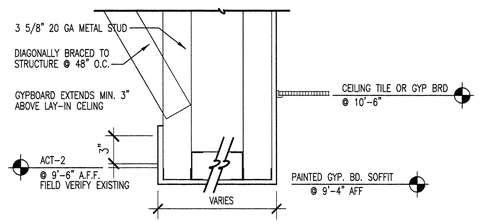
REFLECTED CEILING PLAN LEGEND

- 4' WALL MOUNTED LIGHTING FIXTURE
- 2' SURFACE MOUNTED LIGHTING FIXTURE
- SECURITY AND/OR NIGHT LIGHT
- 2' X 4' FLUORESCENT LIGHTING FIXTURE
- RECESSED LIGHTING FIXTURE
- PENDENT MOUNTED SECURITY CAMERA
- 2' X 4' FLUORESCENT INDIRECT LIGHTING FIXTURE
- 8' SUSPENDED LIGHTING FIXTURE
- UNIT HEATER
- TRACK LIGHT
- 8' SUSPENDED INDIRECT LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE
- 2'X4' SUSPENDED ACOUSTICAL CEILING PROVIDE SEISMIC BRACING, SEE DETAIL 2/A102
- METAL SOFFIT PANEL
- RETURN REGISTER
- SUPPLY DIFFUSER
- EXHAUST FAN
- GYPSUM BOARD SOFFIT
- (E.S.) PAINTED EXPOSED STRUCTURE HEIGHT MAY VARY
- (MSP) METAL SOFFIT PANEL
- (AC) 2'X4' SUSPENDED ACOUSTICAL CEILING
- (GB) GYPSUM BOARD CEILING, PAINTED
- (SUSPGB) SUSPENDED GYPSUM BOARD CEILING, PAINTED
- (PMSP) EXTERIOR GYPSUM SOFFET BOARD CEILING UNDER PREFINISHED METAL SOFFET PANEL
- (SSS) SYNTHETIC STUCCO SOFFET
- (0'-0") CEILING OR SOFFIT HEIGHT (HEIGHT MEASURED FROM FINISHED FLOOR ELEVATION OF 0'-0")

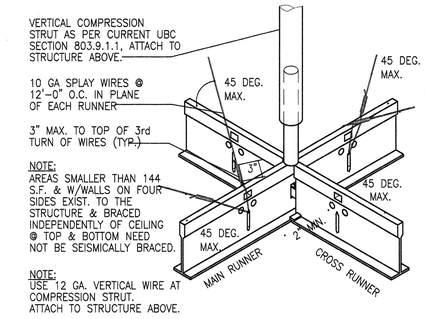
NOTE: CEILING TO BE INSTALLED PER SECTION 1621 OF THE 2006 IBC OR BRACED PER 1997 UBC STANDARDS, SECTION 25-2.
THE PREFERRED METHOD OF INSTALLATION IS THE 1997 UBC STANDARDS, SECTION 25-2.
THE CEILING EXPANSION JOINT IS NOT REQUIRED IF INSTALLED PER THE 1997 UBC STANDARDS.



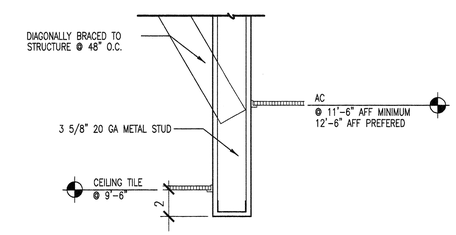
4 A102 SLIP JOINT DETAIL
SCALE: NONE



3 A102 CEILING DROP DETAIL
SCALE: NONE

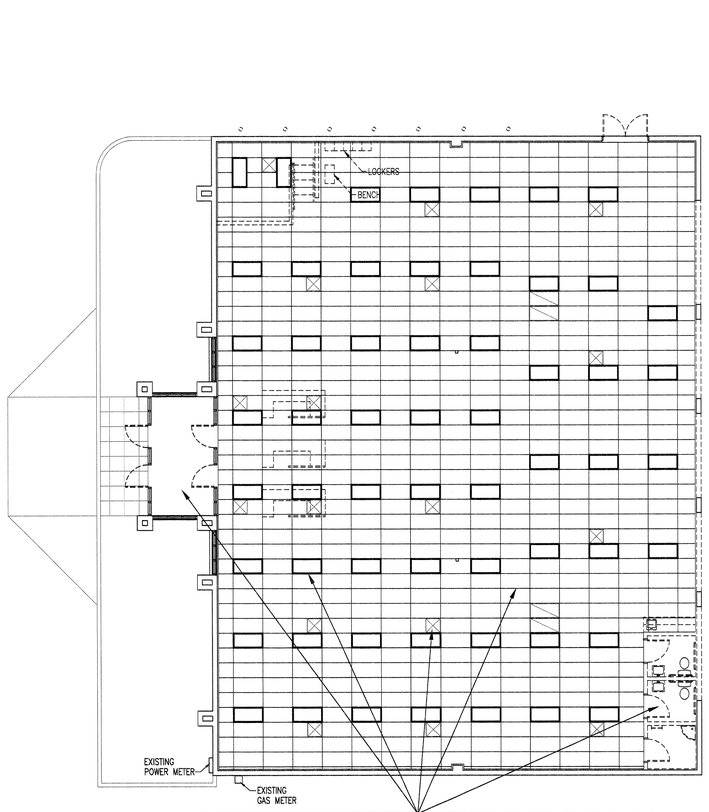


2 A102 SEISMIC BRACING DETAIL
SCALE: NONE



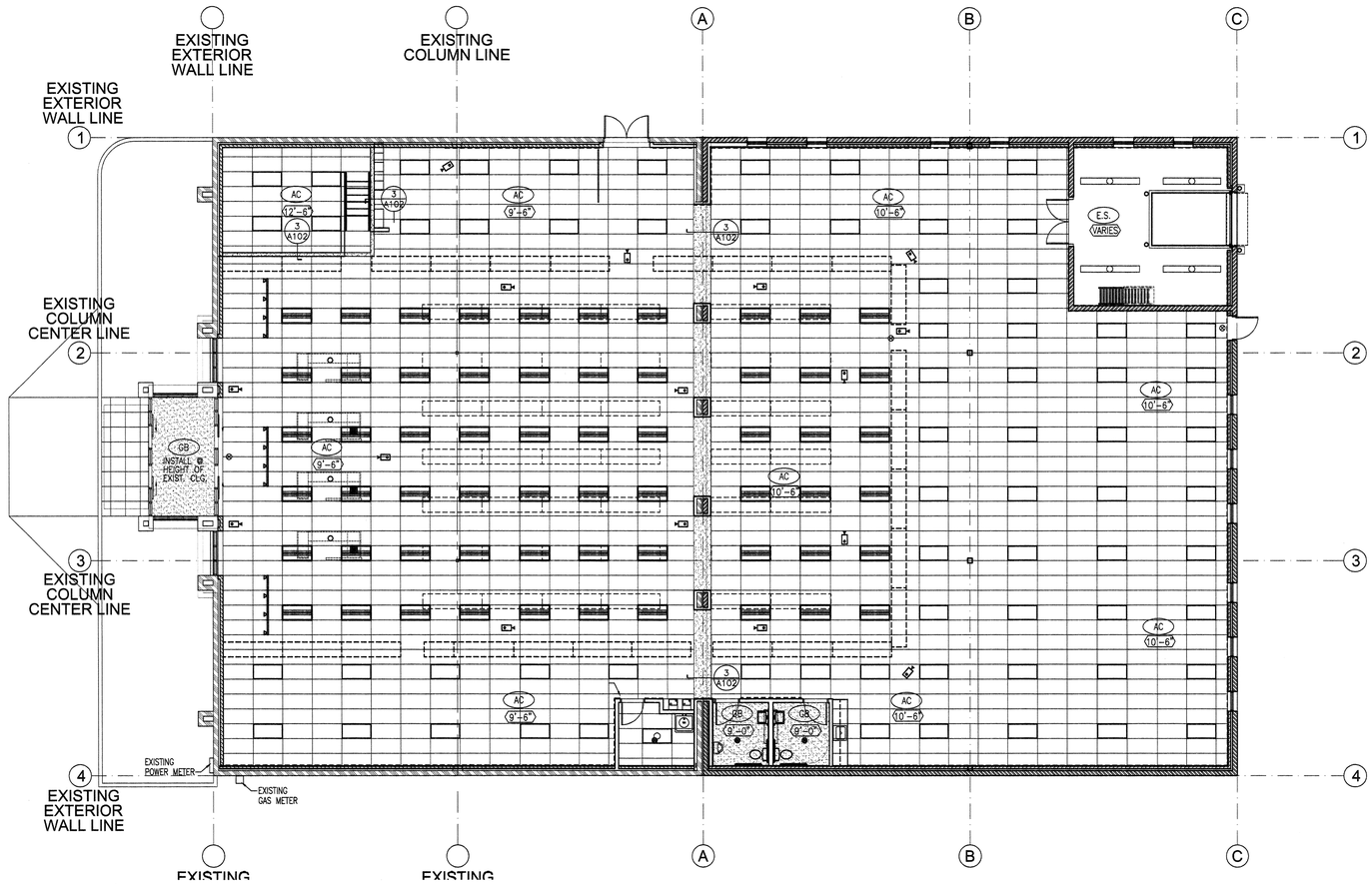
1 A102 CEILING DROP DETAIL
SCALE: NONE

NOTE:
CONTRACTOR SHALL PROVIDE AND INSTALL NEW GYPBOARD CEILINGS AND LAY-IN CEILING GRIDS AND TILES (REFER TO REFLECTED CEILING PLAN, THIS SHEET), HVAC GRILLES AND DIFFUSERS (REFER TO MECHANICAL SHEETS), LIGHT FIXTURES AND CAMERAS (REFER TO ELECTRICAL SHEETS) AND NEW FIRE SPRINKLER HEADS.



NOTE: CONTRACTOR TO REMOVE AND DISPOSE OF ALL EXISTING GYPBOARD CEILINGS, LAY-IN CEILING GRIDS AND TILES, HVAC GRILLES AND DIFFUSERS, CEILING LIGHT FIXTURES, CAMERAS AND HOUSINGS (OWNER TO RETAIN) AND FIRE SPRINKLER HEADS.

EXISTING CEILING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

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REFLECTED CEILING PLAN, CEILING DEMO PLAN AND DETAILS

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STATE OF UTAH FRANK N. MURDOCK 124498 LICENSED ARCHITECT

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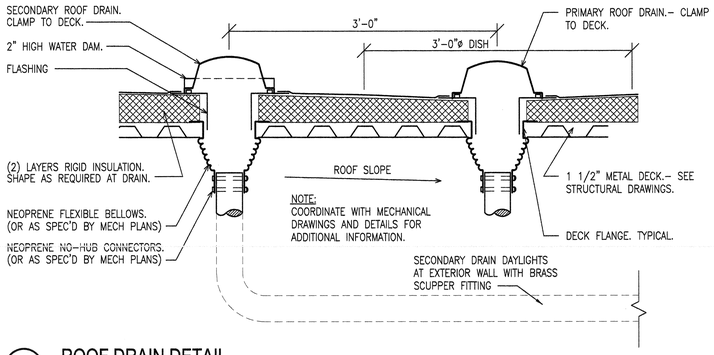
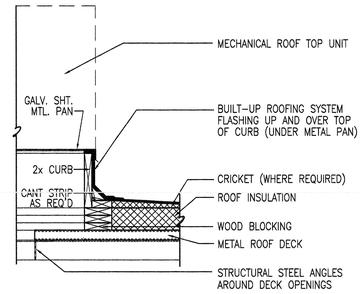
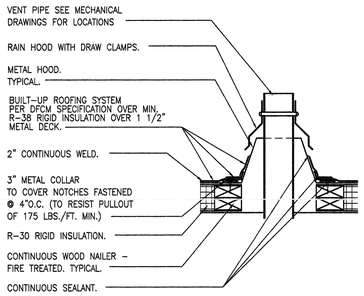
A 102



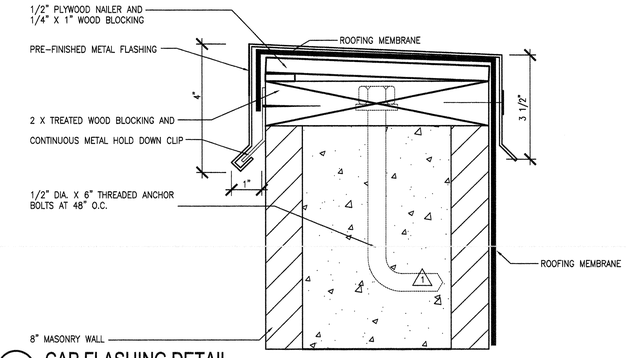
4 A103 **ROOF DRAIN DETAIL**
SCALE: NOT TO SCALE



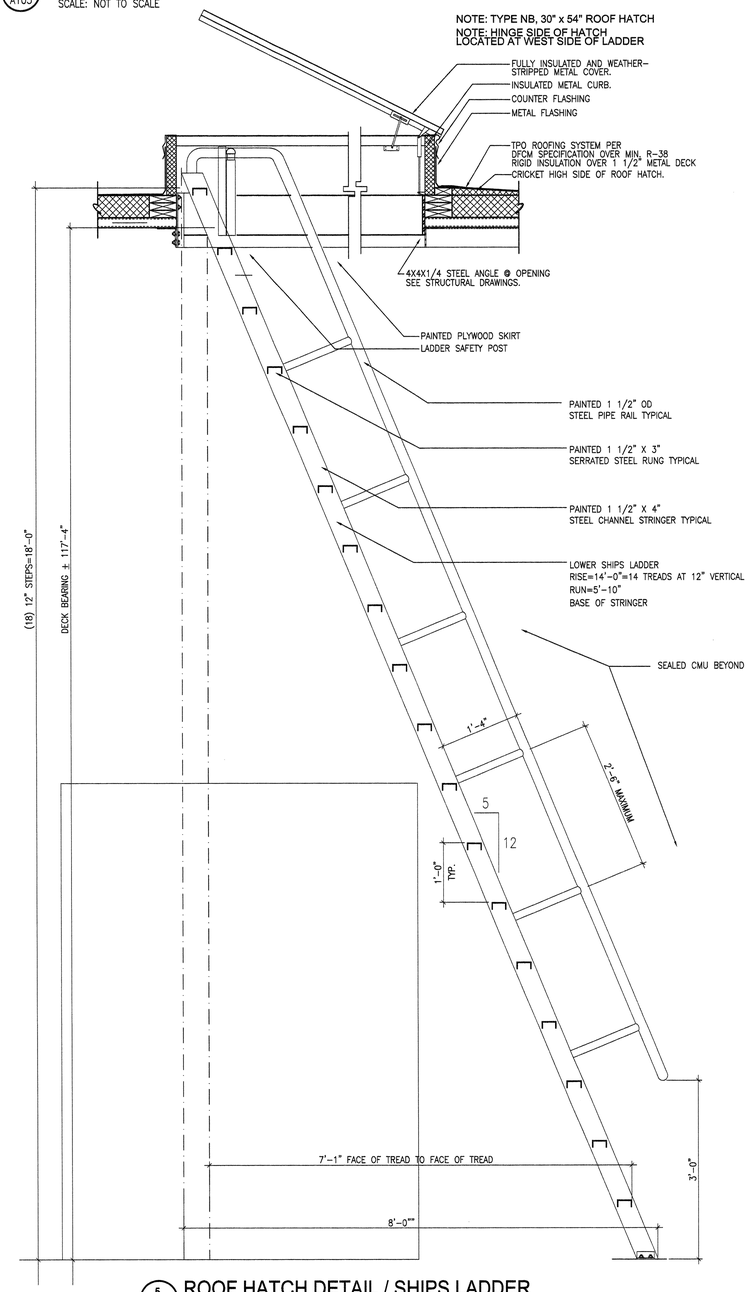
3 A103 **ROOF CURB DETAIL**
SCALE 1" = 1' - 0"



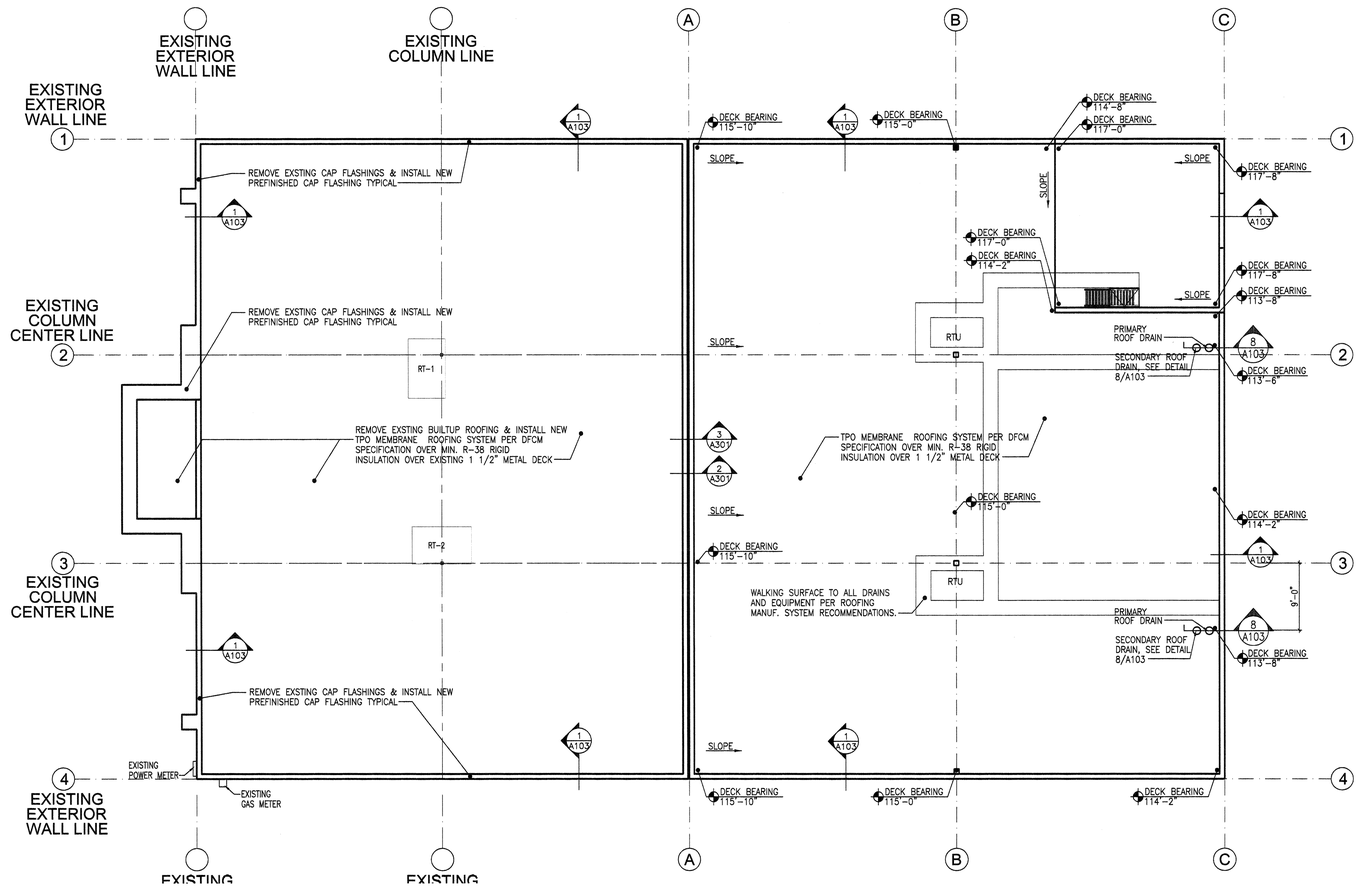
2 A103 **VENT PIPE DETAIL**
SCALE 3" = 1' - 0"



1 A103 **CAP FLASHING DETAIL**
SCALE 1/2" = 1' - 0"



5 A103 **ROOF HATCH DETAIL / SHIPS LADDER**
SCALE: 3/4" = 1'-0"



ROOF PLAN
SCALE: 1/8" = 1'-0"

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ROOF PLAN, SECTIONS AND DETAILS

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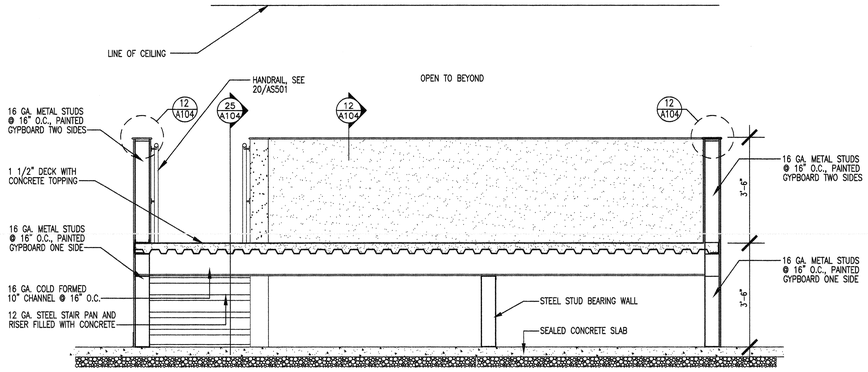
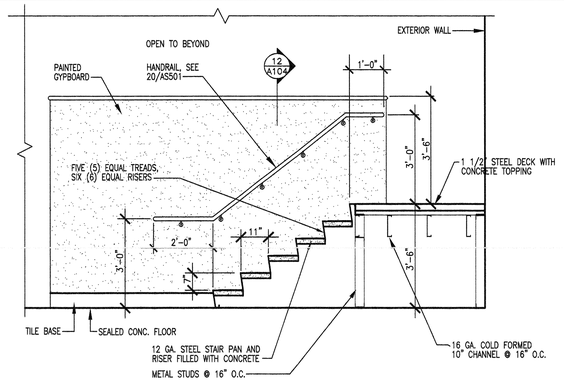
A 103

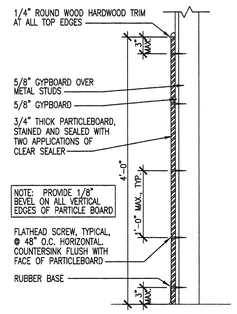
NOTE: OWNER TO PROVIDE AND INSTALL ALL SOAP DISPENSERS, SANITARY NAPKIN DISPOSAL UNIT, PAPER TOWEL DISPENSER AND WASTE UNITS AND TOILET PAPER DISPENSERS.



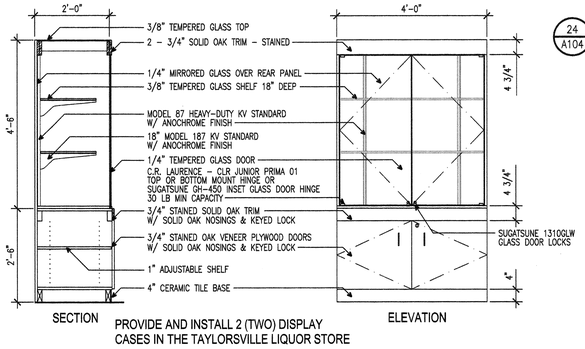
24 A104 SECTION AT OFFICE
SCALE: 1/2" = 1'-0"



25 A104 SECTION AT OFFICE
SCALE: 1/2" = 1'-0"

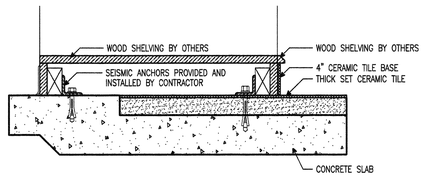


23 A104 SECTION AT WAINSCOT
SCALE: NOT TO SCALE

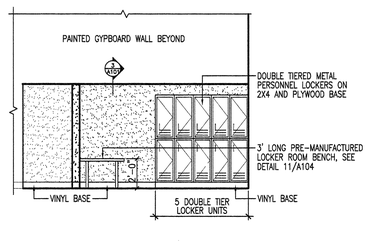


PROVIDE AND INSTALL 2 (TWO) DISPLAY CASES IN THE TAYLORSVILLE LIQUOR STORE

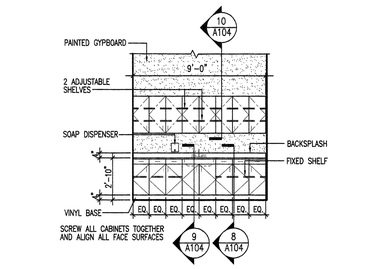
22 A104 DISPLAY CASE ELEVATION AND SECTION
SCALE: NOT TO SCALE



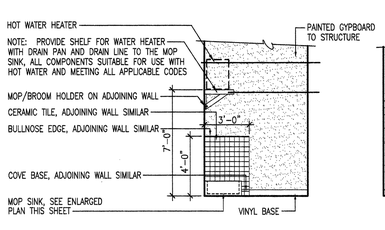
21 A104 SECTION @ WOOD SHELVING BASE
SCALE: NOT TO SCALE



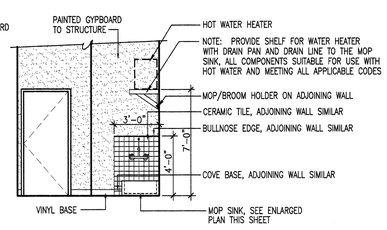
20 A104 ELEVATION AT LOCKERS/BENCH
SCALE: 1/4" = 1'-0"



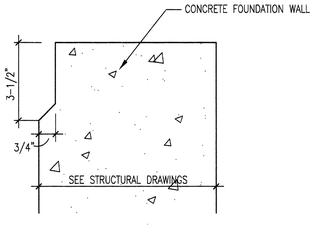
19 A104 ELEVATION AT LUNCH COUNTER
SCALE: 1/4" = 1'-0"



18 A104 ELEVATION AT UTILITY ROOM
SCALE: 1/4" = 1'-0"

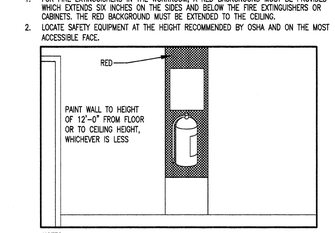


17 A104 ELEVATION AT UTILITY ROOM
SCALE: 1/4" = 1'-0"



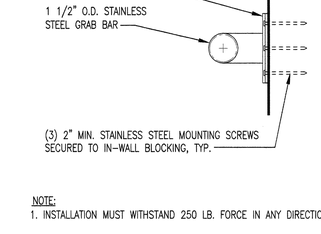
16 A104 CONCRETE REVEAL
SCALE: NONE

1. FOR FIRE EXTINGUISHERS IN THE WORKROOM, A RED BACKGROUND MUST BE PROVIDED WHICH EXTENDS SIX INCHES ON THE SIDES AND BELOW THE FIRE EXTINGUISHERS OR CABINETS. THE RED BACKGROUND MUST BE EXTENDED TO THE CEILING.
2. LOCATE SAFETY EQUIPMENT AT THE HEIGHT RECOMMENDED BY OSHA AND ON THE MOST ACCESSIBLE FACE.



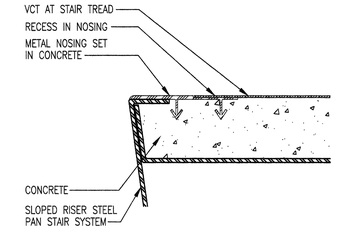
NOTES:

15 A104 FIRE EXTINGUISHER IDENTIFICATION
SCALE: NONE

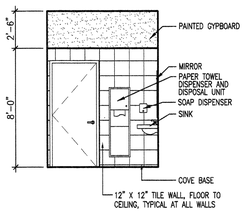


NOTE:
1. INSTALLATION MUST WITHSTAND 250 LB. FORCE IN ANY DIRECTION.

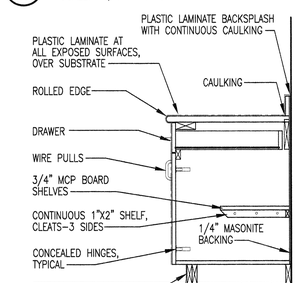
14 A104 GRAB BAR DETAIL
SCALE: NOT TO SCALE



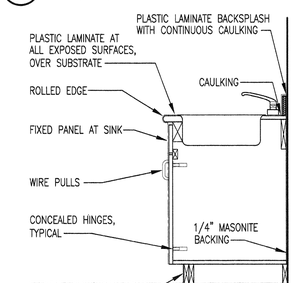
13 A104 STAIR NOSING DETAIL
SCALE: NOT TO SCALE



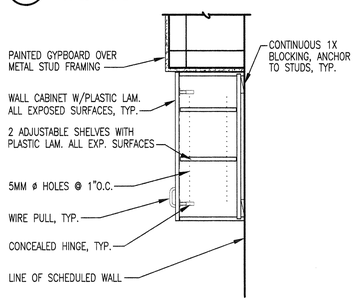
7 A104 ELEV. AT MEN'S RESTROOM
SCALE: 1/4" = 1'-0"



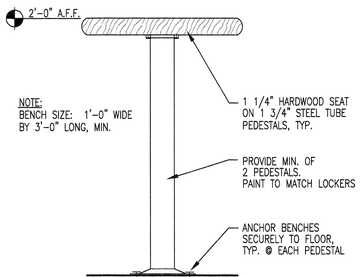
8 A104 BASE CABINET SECTION
SCALE: NOT TO SCALE



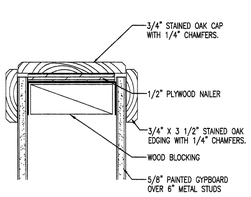
9 A104 SINK CABINET SECTION
SCALE: NOT TO SCALE



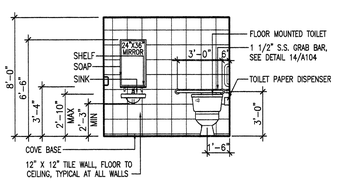
10 A104 UPPER CABINET SECTION
SCALE: NOT TO SCALE



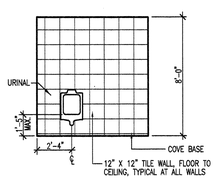
11 A104 LOCKER ROOM BENCH
SCALE: NOT TO SCALE



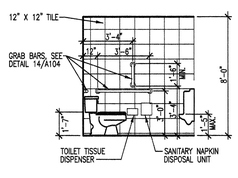
12 A104 SECTION AT WALL CAP
SCALE: NOT TO SCALE



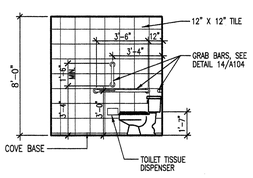
6 A104 ELEV. AT MEN'S RESTROOM
SCALE: 1/4" = 1'-0"



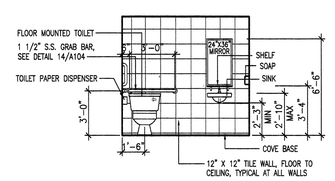
5 A104 ELEV. AT MEN'S RESTROOM
SCALE: 1/4" = 1'-0"



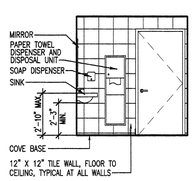
4 A104 ELEV. AT MEN'S RESTROOM
SCALE: 1/4" = 1'-0"



3 A104 ELEV. AT WOMEN'S RESTROOM
SCALE: 1/4" = 1'-0"



2 A104 ELEV. ATWOMEN'S RESTROOM
SCALE: 1/4" = 1'-0"



1 A104 ELEV. AT WOMEN'S RESTROOM
SCALE: 1/4" = 1'-0"

TAYLORSVILLE LIQUOR STORE EXPANSION AND REMODEL

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

INTERIOR ELEVATIONS, MISCELLANEOUS SECTIONS AND DETAILS

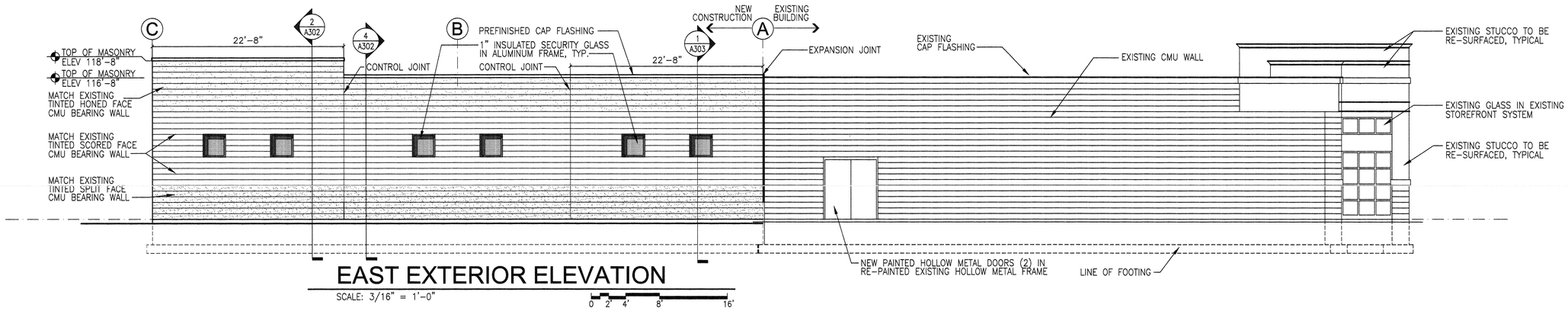
FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH
FRANK N. MURDOCK
124498
LICENSED ARCHITECT

REVISION # DATE:

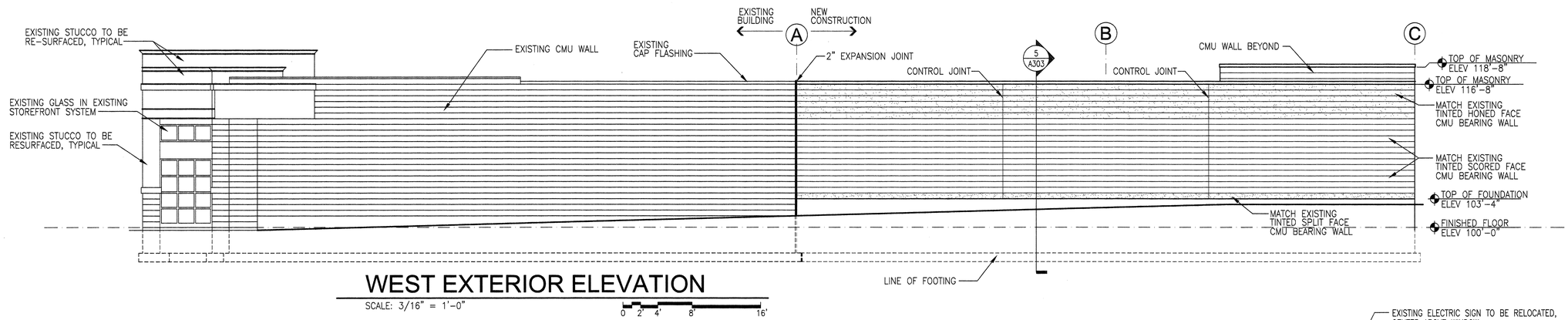
DFCM PROJECT NO.:
06306030
CONSTR. DOC.
FILE NAME: ABCTV-A104
PLOT SCALE: 1:24
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: APRIL 2008

A
104



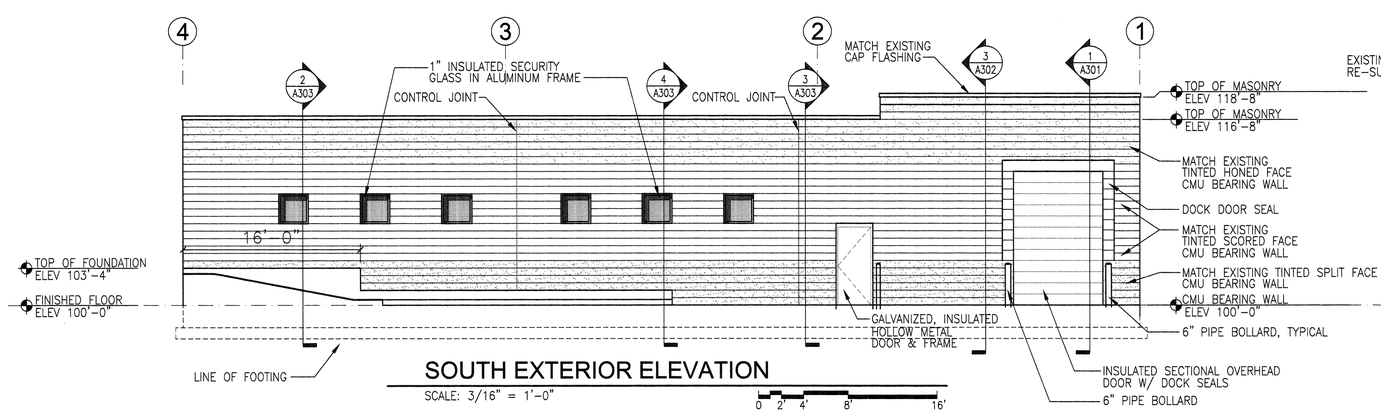
EAST EXTERIOR ELEVATION

SCALE: 3/16" = 1'-0"



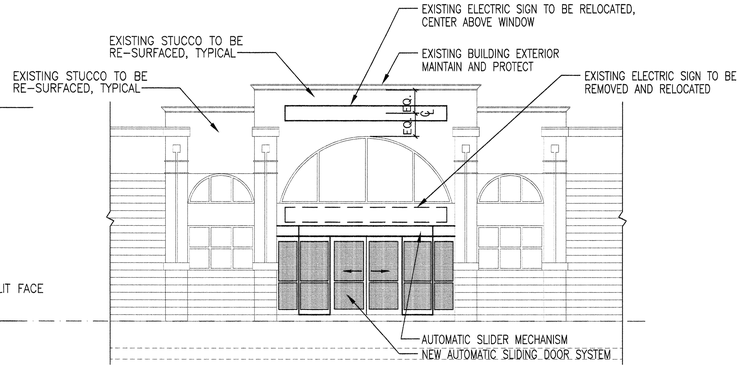
WEST EXTERIOR ELEVATION

SCALE: 3/16" = 1'-0"



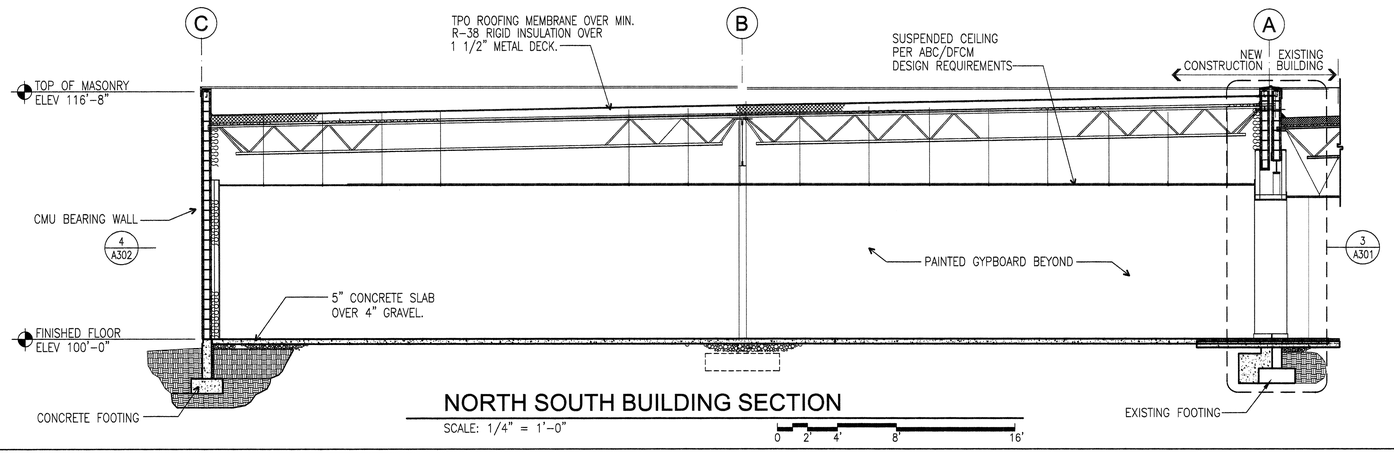
SOUTH EXTERIOR ELEVATION

SCALE: 3/16" = 1'-0"



PARTIAL NORTH EXTERIOR ELEVATION

SCALE: 3/16" = 1'-0"



NORTH SOUTH BUILDING SECTION

SCALE: 1/4" = 1'-0"

TAYLORSVILLE LIQUOR STORE EXPANSION AND REMODEL

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

EXTERIOR ELEVATIONS AND BUILDING SECTION

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STATE OF UTAH FRANK N. MURDOCK 124498 LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
06306030
CONSTR DOC
FILE NAME: ABCTV-A201
PLOT SCALE: 1:64
DRAWN BY: STAFF
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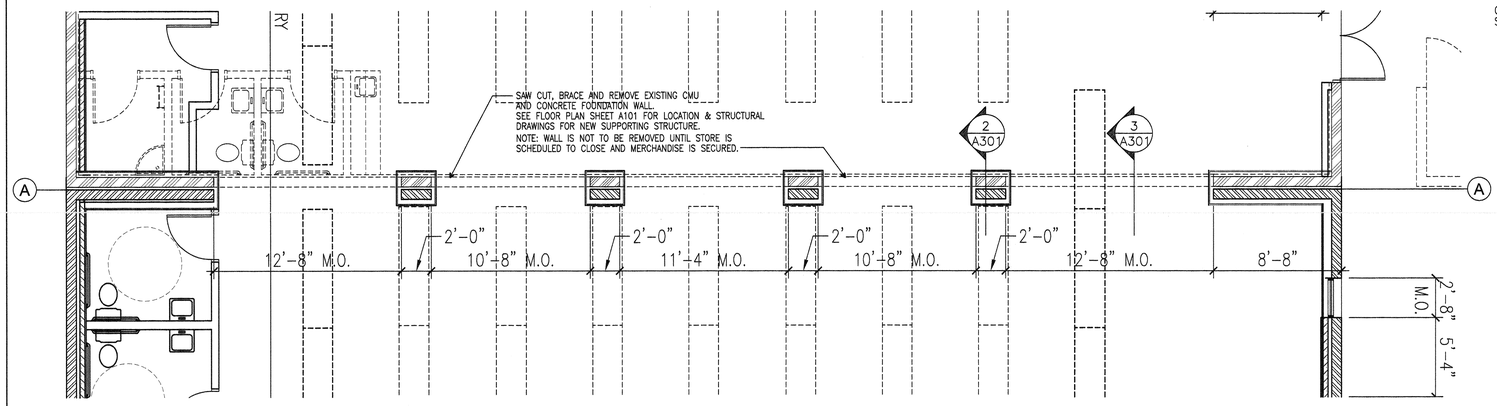
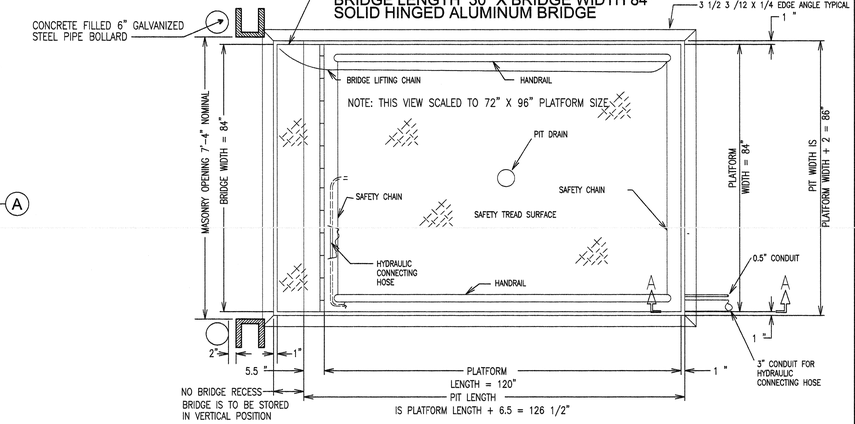
A
201



4 A301 **PARTIAL FLOOR PLAN @ EXPANSION JOINT**

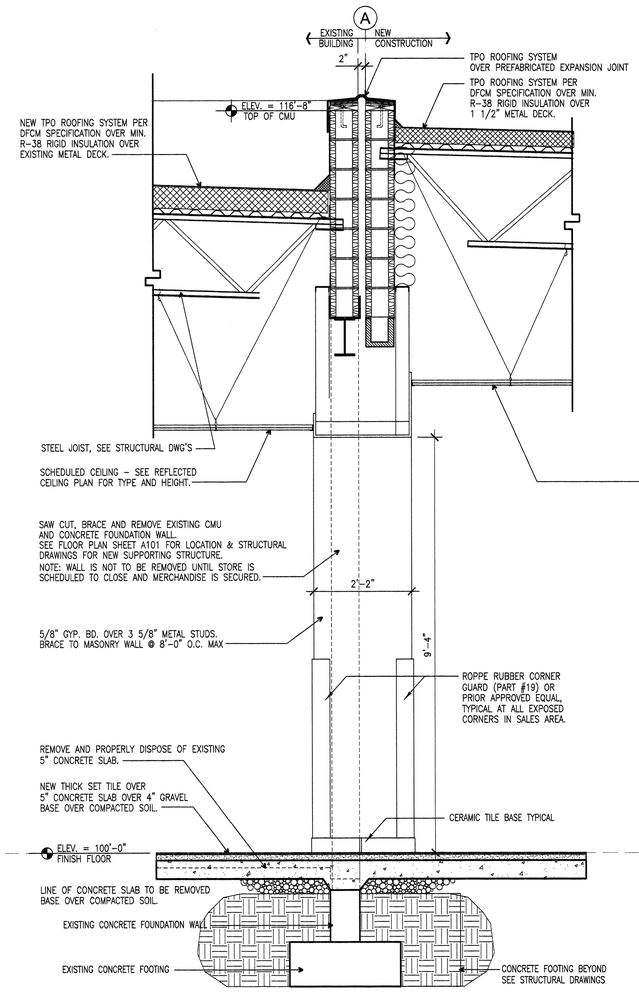
SCALE: 1/4" = 1'-0"



5 A301 **SCISSOR LIFT PLAN**

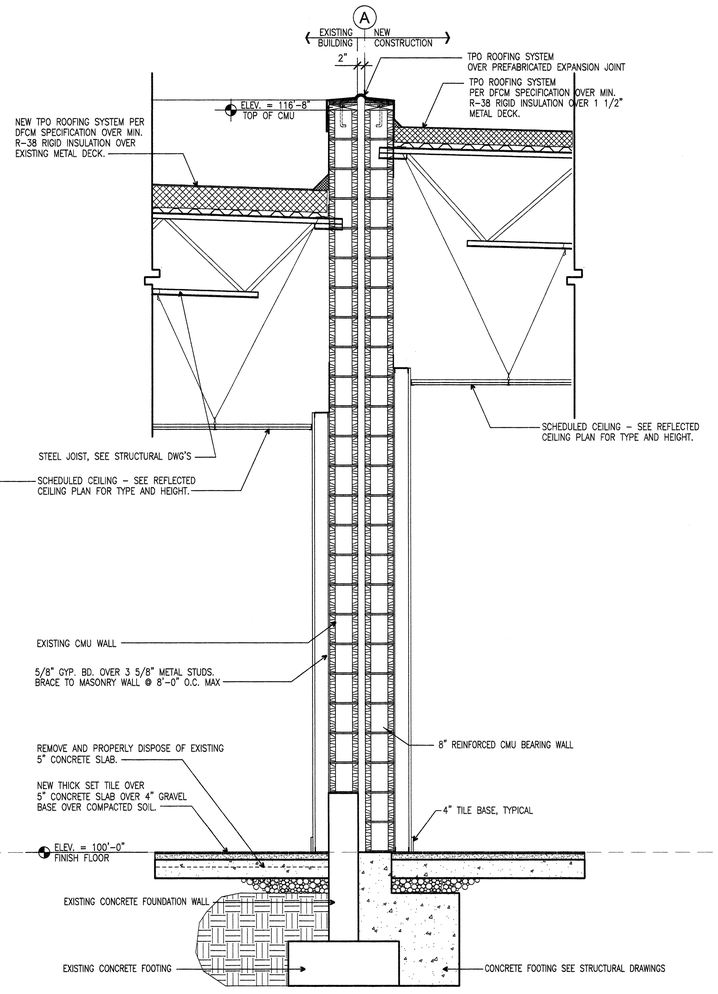
SCALE: 3/4" = 1'-0" NOTE: PLATFORM IS NOT TO SCALE. THIS VIEW SCALED TO 72" X 96" PLATFORM SIZE

0 2' 4' 8' 16'



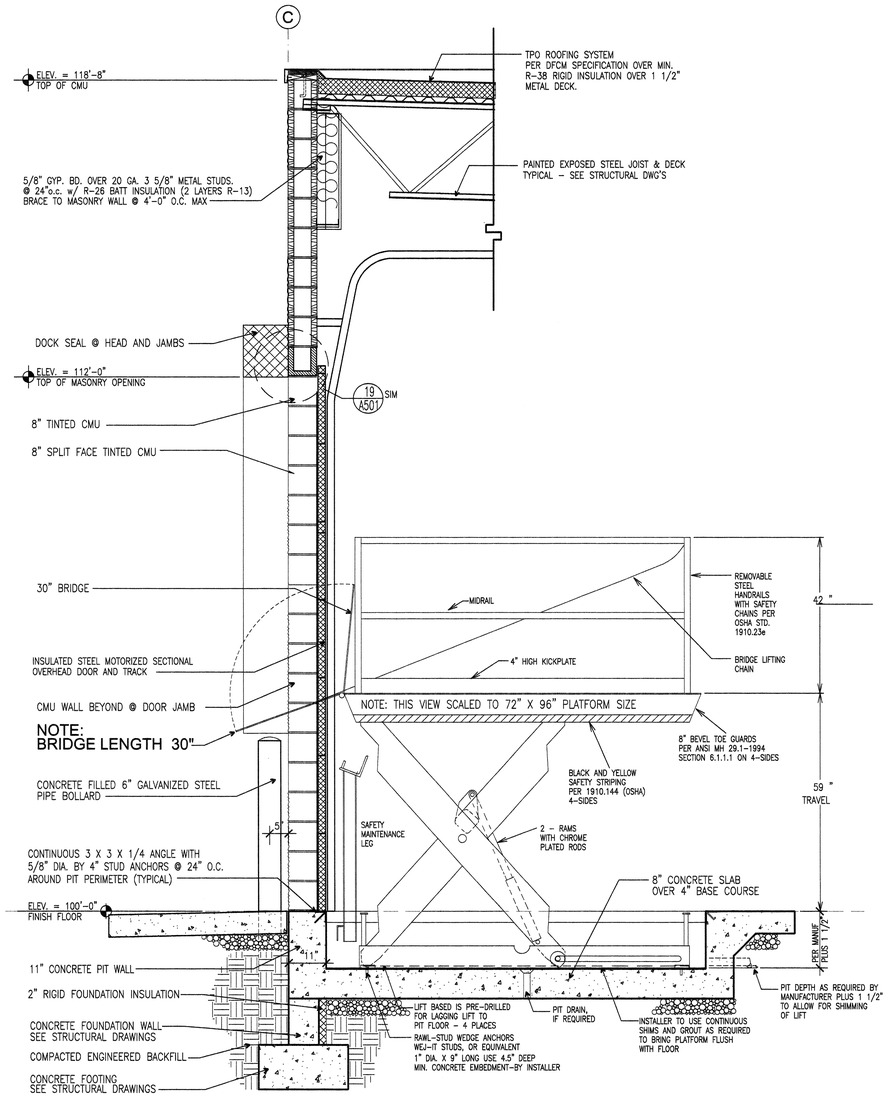
3 A301 **WALL SECTION @ EXPANSION JOINT**

SCALE: 3/4" = 1'-0"



2 A301 **WALL SECTION @ EXPANSION JOINT**

SCALE: 3/4" = 1'-0"



1 A301 **WALL SECTION @ SCISSOR LIFT**

SCALE: 3/4" = 1'-0"

TAYLORSVILLE LIQUOR STORE EXPANSION AND REMODEL

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

WALL SECTIONS AND DETAILS

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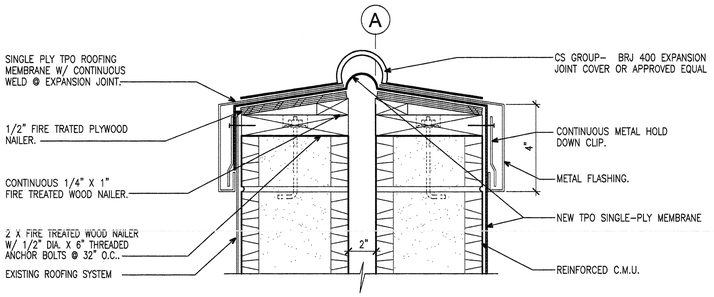
STATE OF UTAH FRANK N. MURDOCK 124498 LICENSED ARCHITECT

REVISION # DATE:

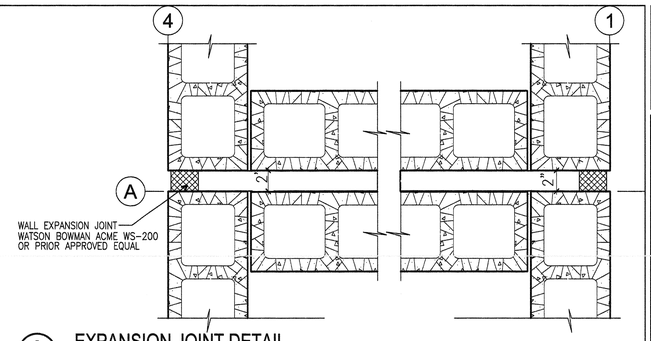
DFCM PROJECT NO.: 06306030
CONSTR. DOC
FILE NAME: ABCTV-A301
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: APRIL 2008

A 301



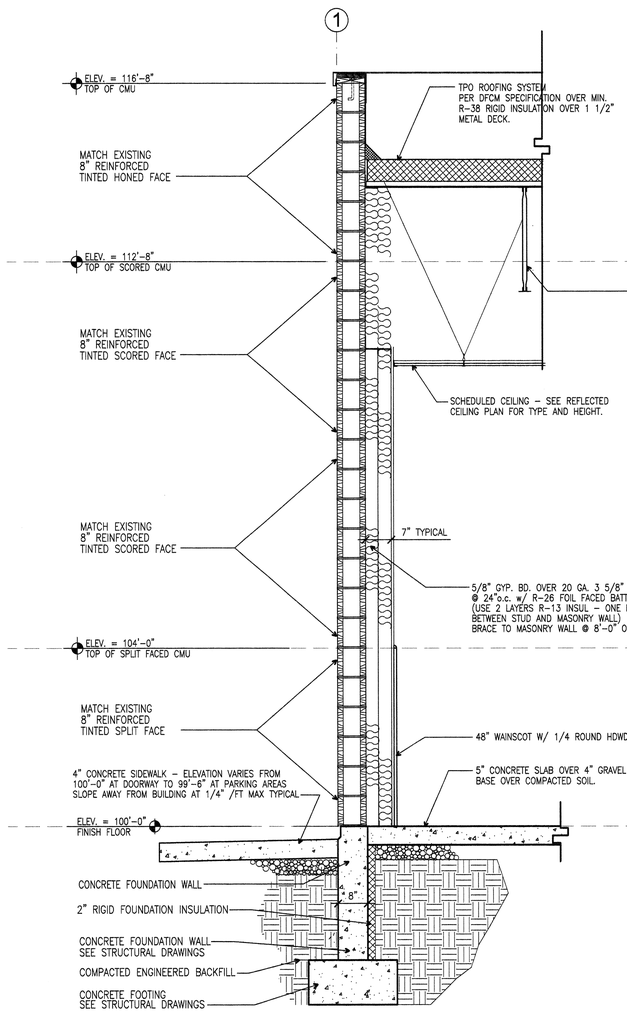
6 A302 ROOF EXPANSION JOINT DETAIL

SCALE: NOT TO SCALE



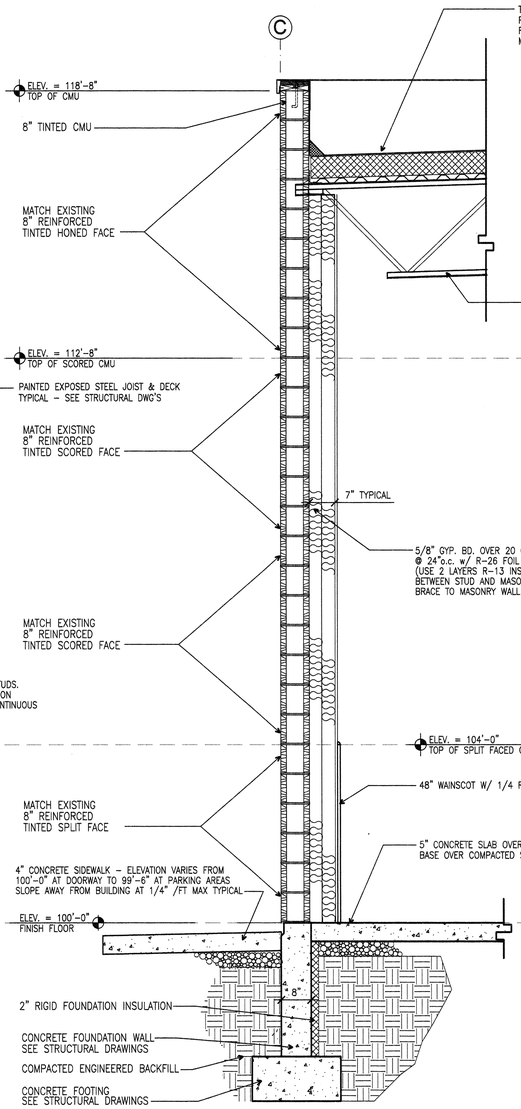
5 A302 EXPANSION JOINT DETAIL

SCALE: NOT TO SCALE



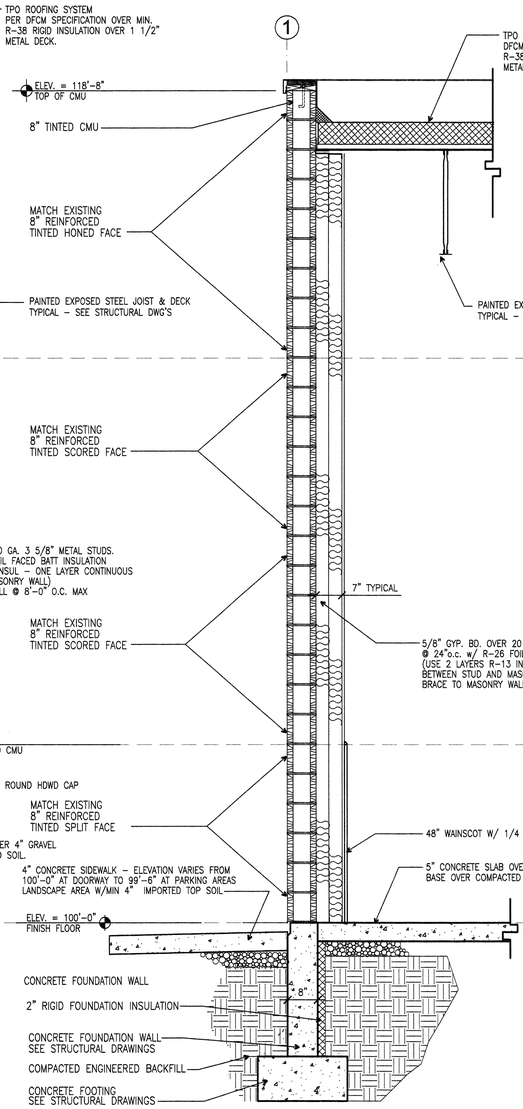
4 A302 WALL SECTION

SCALE: 3/4" = 1'–0"



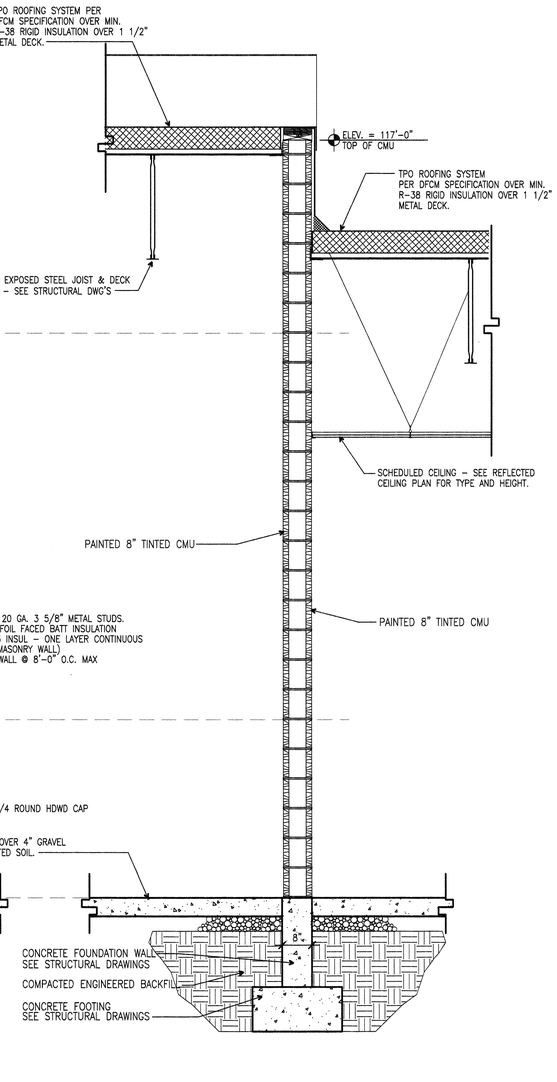
3 A302 WALL SECTION

SCALE: 3/4" = 1'–0"



2 A302 WALL SECTION

SCALE: 3/4" = 1'–0"



1 A302 WALL SECTION

SCALE: 3/4" = 1'–0"

TAYLORSVILLE LIQUOR STORE EXPANSION AND REMODEL

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

WALL SECTIONS AND DETAILS

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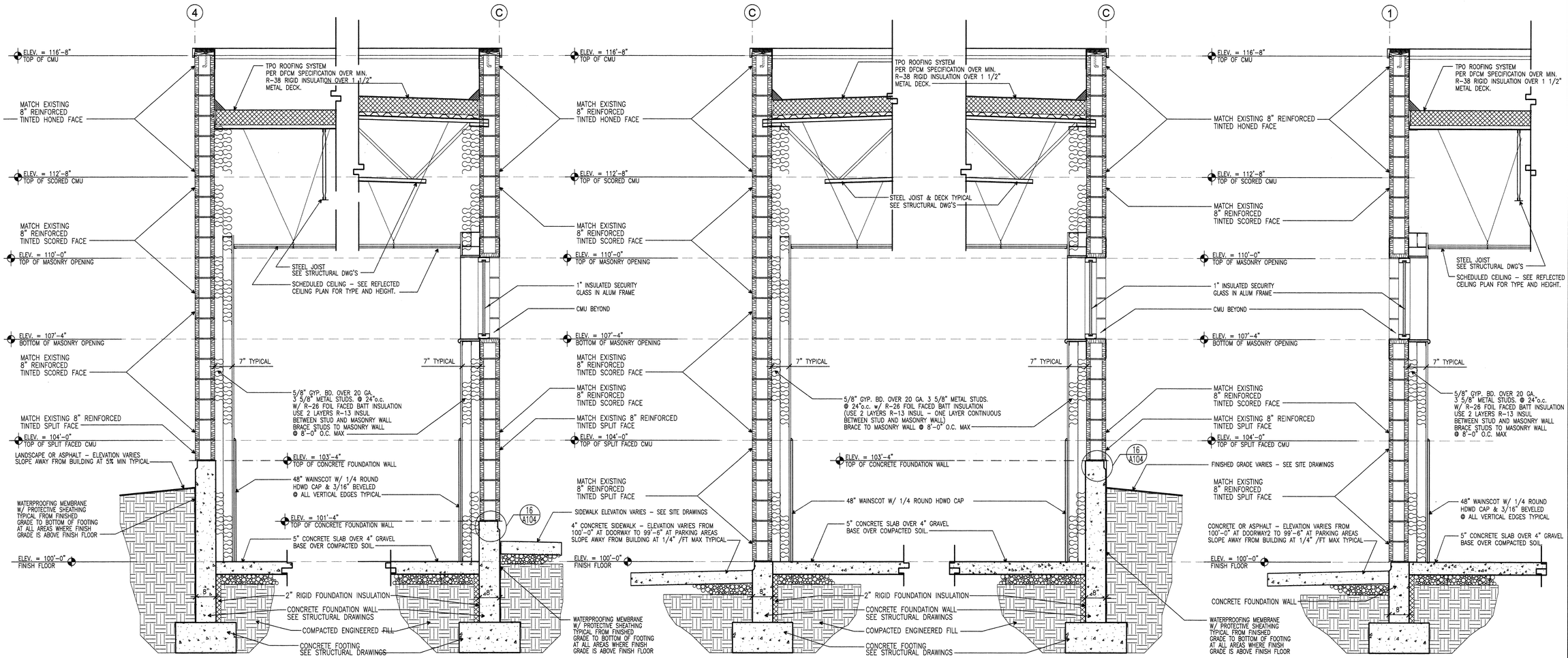
STATE OF UTAH FRANK N. MURDOCK JR. 124498 LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.: 06306030
CONSTR DOC
FILE NAME: ABCTV–A302
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: APRIL 2008

A 302



5 / A303 WALL SECTION
SCALE: 3/4" = 1'-0"

4 / A303 WALL SECTION
SCALE: 3/4" = 1'-0"

3 / A303 WALL SECTION
SCALE: 3/4" = 1'-0"

2 / A303 WALL SECTION
SCALE: 3/4" = 1'-0"

1 / A303 WALL SECTION
SCALE: 3/4" = 1'-0"

TAYLORSVILLE LIQUOR STORE EXPANSION AND REMODEL

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

WALL SECTIONS AND DETAILS

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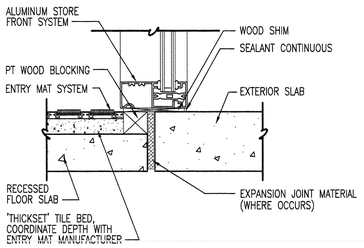
STATE OF UTAH
FRANK N. MURDOCK
124498
LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
06306030
CONSTR DOC
FILE NAME: ABCTV-A303
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: APRIL 2008

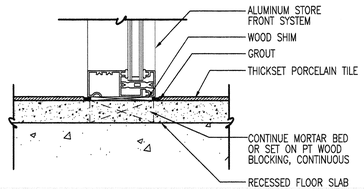
A
303

NOTE:
THE ALUMINUM STORE FRONT SYSTEMS DEPICTED ON THE DETAILS ARE GENERIC GRAPHIC REPRESENTATIONS.
ALL ALUMINUM STORE FRONT SYSTEMS FOR THIS PROJECT ARE TO BE THERMALLY BROKEN SYSTEMS



NOTE: PROVIDE THERMAL BREAK ON ALL ALUMINUM FRAMES @ EXTERIOR WALLS.

23 A501 STOREFRONT WINDOW SILL
SCALE: NOT TO SCALE

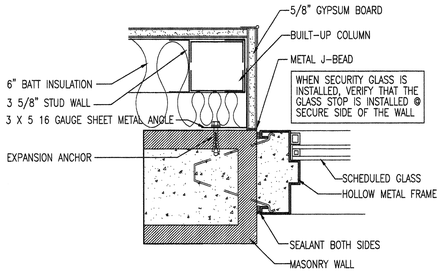


NOTE: PROVIDE THERMAL BREAK ON ALL ALUMINUM FRAMES @ EXTERIOR WALLS.

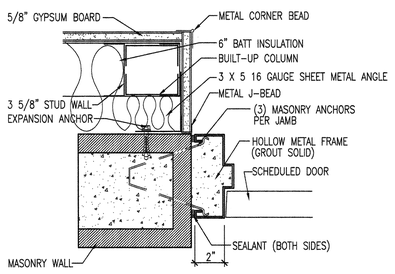
22 A501 STOREFRONT WINDOW SILL
SCALE: NOT TO SCALE

NOT USED

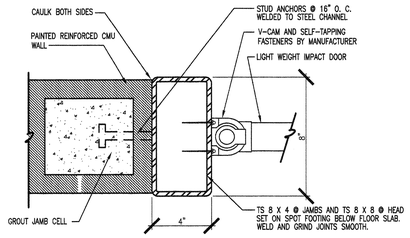
21 A501 NOT USED
SCALE: NOT TO SCALE



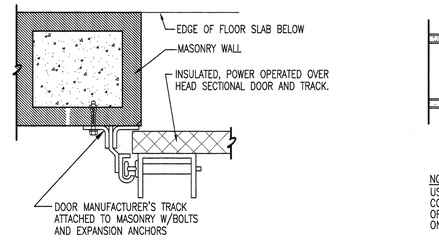
16 A501 HOLLOW METAL WINDOW JAMB
SCALE: NOT TO SCALE



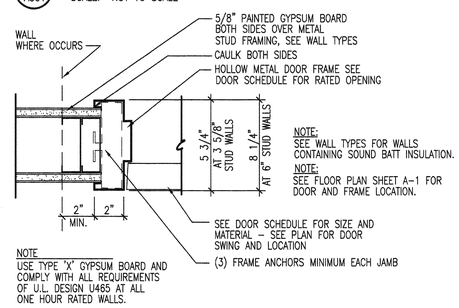
17 A501 HOLLOW METAL DOOR JAMB
SCALE: NOT TO SCALE



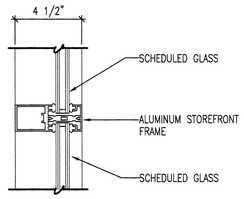
18 A501 IMPACT DOOR JAMB/head sim
SCALE: NOT TO SCALE



19 A501 OVERHEAD DOOR JAMB
SCALE: NOT TO SCALE

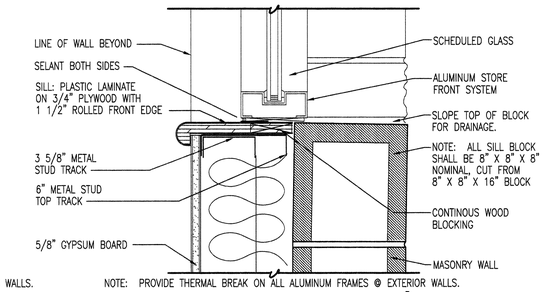


20 A501 HOLLOW METAL OR WOOD DOOR (INTERIOR)
SCALE: NOT TO SCALE



NOTE: PROVIDE THERMAL BREAK ON ALL ALUMINUM FRAMES @ EXTERIOR WALLS.

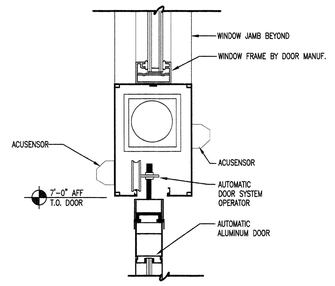
15 A501 STOREFRONT WINDOW MULLION
SCALE: NOT TO SCALE



NOTE: PROVIDE THERMAL BREAK ON ALL ALUMINUM FRAMES @ EXTERIOR WALLS.

14 A501 STOREFRONT WINDOW SILL *
SCALE: NOT TO SCALE

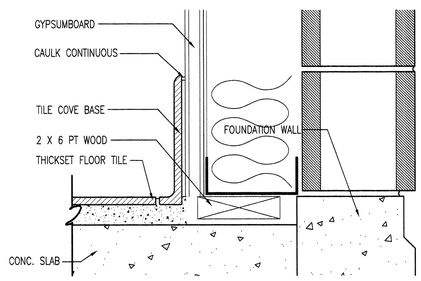
NOT USED



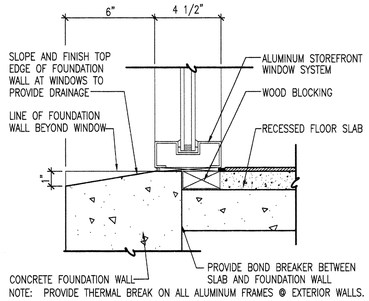
12 A501 STOREFRONT DOOR HEAD
SCALE: NOT TO SCALE

NOT USED

13 A501 NOT USED
SCALE: NOT TO SCALE

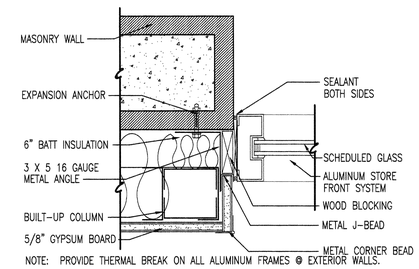


6 A501 THICKSET TILE BASE
SCALE: NOT TO SCALE



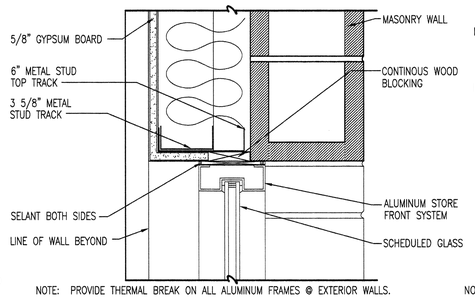
NOTE: PROVIDE THERMAL BREAK ON ALL ALUMINUM FRAMES @ EXTERIOR WALLS.

7 A501 STOREFRONT WINDOW SILL
SCALE: NOT TO SCALE



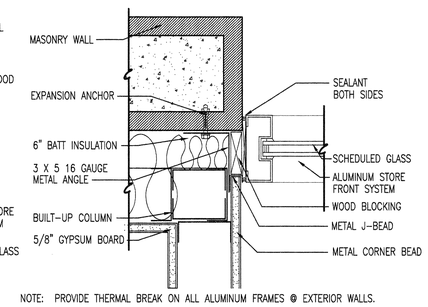
NOTE: PROVIDE THERMAL BREAK ON ALL ALUMINUM FRAMES @ EXTERIOR WALLS.

8 A501 STOREFRONT WINDOW JAMB
SCALE: NOT TO SCALE



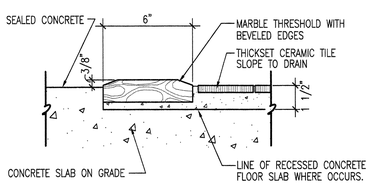
NOTE: PROVIDE THERMAL BREAK ON ALL ALUMINUM FRAMES @ EXTERIOR WALLS.

9 A501 STOREFRONT WINDOW HEAD
SCALE: NOT TO SCALE

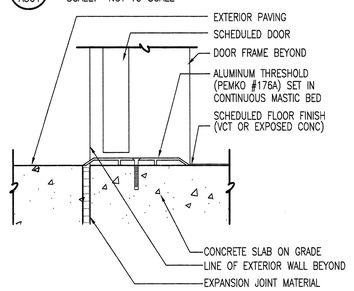


NOTE: PROVIDE THERMAL BREAK ON ALL ALUMINUM FRAMES @ EXTERIOR WALLS.

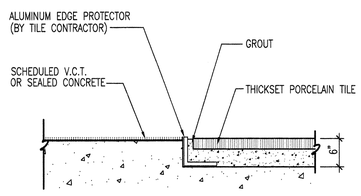
10 A501 STOREFRONT WINDOW JAMB
SCALE: NOT TO SCALE



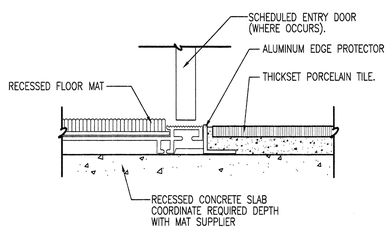
5 A501 MARBLE THRESHOLD
SCALE: NOT TO SCALE



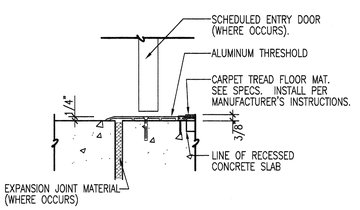
4 A501 DOOR THRESHOLD
SCALE: NOT TO SCALE



3 A501 CONCRETE TO TILE TRANSITION
SCALE: NONE



2 A501 TILE TO FLOOR MAT DETAIL
SCALE: NONE



1 A501 DOOR THRESHOLD (entry mat)
SCALE: NOT TO SCALE

TAYLORSVILLE ABC STORE - REMODEL AND EXPANSION
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

MISCELLANEOUS DETAILS

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STATE OF UTAH FRANK N. MURDOCK 124498 LICENSED ARCHITECT

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A 501

FINISH SCHEDULE

ROOM	FLOOR	WALL	BASE	CEILING	HEIGHT	REMARKS
ENTRY VESTIBULES	THICKSET TILE/ENTRY MAT	PAINTED GYPBOARD	CERAMIC TILE	PAINTED GYPBOARD	14'-0"	
SALES AREA	THICKSET TILE	PAINTED GYPBOARD	CERAMIC TILE	2 X 4 ACOUSTICAL	10'-4"	CERAMIC TILE BASE @ SHELVING/DISPLAY CASES
STOREROOM	SEALED CONCRETE	PAINTED GYPBOARD	VINYL	2 X 4 ACOUSTICAL	10'-4"	
OFFICE	VCT	PAINTED GYPBOARD	VINYL	2 X 4 ACOUSTICAL	11'-6"	RAISED PLATFORM
STORAGE	SEALED CONCRETE	PAINTED GYPBOARD	VINYL	2 X 4 ACOUSTICAL	11'-6"	
JANITOR'S ROOM	SEALED CONCRETE	PAINTED GYPBOARD	VINYL	2 X 4 ACOUSTICAL	11'-6"	TILE TWO WALLS AT FLOOR SINK, SEE ELEV.
WOMEN'S TOILET	THICKSET TILE	TILE	TILE	PAINTED GYPBOARD	8'-0"	WALL TILE FLOOR TO CEILING
MEN'S TOILET	THICKSET TILE	TILE	TILE	PAINTED GYPBOARD	8'-0"	WALL TILE FLOOR TO CEILING
LUNCH COUNTER	SEALED CONCRETE	PAINTED GYPBOARD	VINYL	2X4 ACOUSTICAL	10'-4"	SEE INTERIOR ELEVATIONS FOR CABINETRY
ENCLOSED DOCK	SEALED CONCRETE	PAINTED GYPBOARD	VINYL	EXPOSED STRUCTURE	VARIES	

GLASS TYPES

A — 1" THICK "LOW E" INSULATING GLASS: 1/4" TINTED FLOAT GLASS EXTERIOR AND 1/4" CLEAR FLOAT GLASS INTERIOR WITH 1/2" AIR SPACE.

ACT — 1" THICK "LOW E" INSULATING GLASS: 1/4" CLEAR FLOAT TEMPERED GLASS EXTERIOR AND 1/4" CLEAR FLOAT TEMPERED GLASS INTERIOR WITH 1/2" AIR SPACE.

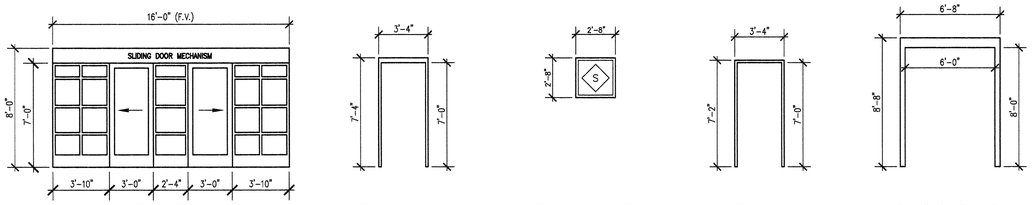
P — 1/8" POLYCARBONATE AT IMPACT DOORS AND OVERHEAD DOORS (PROVIDED AND INSTALLED BY DOOR MANUFACTURER).

S — SECURITY GLASS "LOW E": 1" THICK INSULATING GLASS: 1/4" TINTED FLOAT GLASS EXTERIOR, AND 5/16" SECURITY-LAMINATED SHEETS OF GLASS WITH INNER LAYER OF .075" VINYL OR POLYCARBONATE @ INTERIOR WITH 7/16" AIRSPACE BETWEEN INTERIOR AND EXTERIOR GLASS.

ST — SECURITY GLASS "LOW E": 1" THICK INSULATING GLASS: 1/4" TINTED FLOAT TEMPERED GLASS EXTERIOR, AND 5/16" SECURITY-LAMINATED SHEETS OF GLASS WITH INNER LAYER OF .075" VINYL OR POLYCARBONATE @ INTERIOR WITH 7/16" AIRSPACE BETWEEN INTERIOR AND EXTERIOR GLASS.

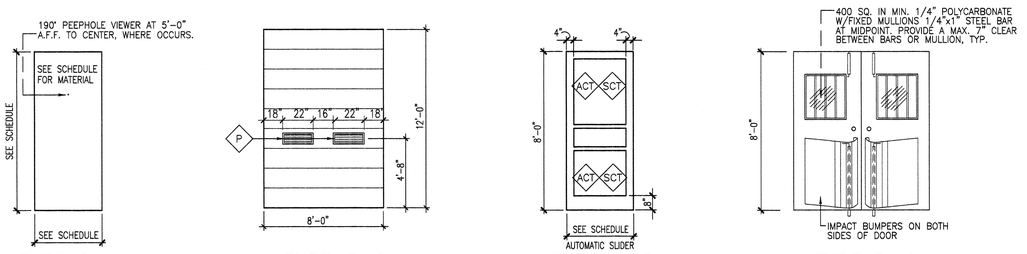
SCT — SECURITY GLASS "LOW E": 1" THICK INSULATING GLASS: 1/4" CLEAR FLOAT TEMPERED GLASS EXTERIOR, AND 5/16" SECURITY-LAMINATED SHEETS OF GLASS WITH INNER LAYER OF .075" VINYL OR POLYCARBONATE @ INTERIOR WITH 7/16" AIRSPACE BETWEEN INTERIOR AND EXTERIOR GLASS.

FRAME TYPES



TYPE F-1 | TYPE F-2 | TYPE F-3 | TYPE F-4 | TYPE F-5

DOOR TYPES



TYPE D-1 | TYPE D-2 O.H. SECTIONAL DOOR | TYPE D-3 | TYPE D-4 DOUBLE IMPACT DOOR

WINDOW SCHEDULE

NO.	SIZE		FRAME			GLASS	WDW	DETAIL REFERENCE				NO.	REMARKS
A	WIDTH	HEIGHT	MATERIAL	TYPE	FINISH	TYPE	BLINDS	HEAD	LEFT JAMB	RIGHT JAMB	SILL	A	CONTRACTOR TO COORDINATE ALL WINDOW DIMENSIONS WITH THE MANUFACTURER
1	2'-8"	2'-8"	ALUM	F-3	FF	S	---	9/A501	8/A501	8/A501	14/A501	1	THERMAL BREAK @ ALL EXTERIOR FRAMES
2	2'-8"	2'-8"	ALUM	F-3	FF	S	---	9/A501	8/A501	8/A501	14/A501	2	THERMAL BREAK @ ALL EXTERIOR FRAMES
3	2'-8"	2'-8"	ALUM	F-3	FF	S	---	9/A501	8/A501	8/A501	14/A501	3	THERMAL BREAK @ ALL EXTERIOR FRAMES
4	2'-8"	2'-8"	ALUM	F-3	FF	S	---	9/A501	8/A501	8/A501	14/A501	4	THERMAL BREAK @ ALL EXTERIOR FRAMES
5	2'-8"	2'-8"	ALUM	F-3	FF	S	---	9/A501	8/A501	8/A501	14/A501	5	THERMAL BREAK @ ALL EXTERIOR FRAMES
6	2'-8"	2'-8"	ALUM	F-3	FF	S	---	9/A501	8/A501	8/A501	14/A501	6	THERMAL BREAK @ ALL EXTERIOR FRAMES
7	2'-8"	2'-8"	ALUM	F-3	FF	S	---	9/A501	8/A501	8/A501	14/A501	7	THERMAL BREAK @ ALL EXTERIOR FRAMES
8	2'-8"	2'-8"	ALUM	F-3	FF	S	---	9/A501	8/A501	8/A501	14/A501	8	THERMAL BREAK @ ALL EXTERIOR FRAMES
9	2'-8"	2'-8"	ALUM	F-3	FF	S	---	9/A501	8/A501	8/A501	14/A501	9	THERMAL BREAK @ ALL EXTERIOR FRAMES
10	2'-8"	2'-8"	ALUM	F-3	FF	S	---	9/A501	8/A501	8/A501	14/A501	10	THERMAL BREAK @ ALL EXTERIOR FRAMES
11	2'-8"	2'-8"	ALUM	F-3	FF	S	---	9/A501	8/A501	8/A501	14/A501	11	THERMAL BREAK @ ALL EXTERIOR FRAMES
12	2'-8"	2'-8"	ALUM	F-3	FF	S	---	9/A501	8/A501	8/A501	14/A501	12	THERMAL BREAK @ ALL EXTERIOR FRAMES
13	16'-0" F.V.	8'-0"	ALUM	F-1	FF	ST	---	---	8/A501	8/A501	3/A501	13	THERMAL BREAK @ ALL EXTERIOR FRAMES
14	16'-0" F.V.	8'-0"	ALUM	F-1	FF	SCT	---	---	8/A501	8/A501	3/A501	14	THERMAL BREAK @ ALL EXTERIOR FRAMES

DOOR SCHEDULE

	SIZE			DOOR			FRAME			DETAIL REFERENCE			HDW.	REMARKS
NO.	WIDTH	HEIGHT	THICK.	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESH.		
1	3'-0"	8'-0"	---	D-3	ALUM	FF	F-1	ALUM	FF	12/A501	9/A501	1/A501	1	AUTOMATIC SLIDER W/SENSOR ACTIVATION
2	3'-0"	8'-0"	---	D-3	ALUM	FF	F-1	ALUM	FF	12/A501	8/A501	1/A501	1	AUTOMATIC SLIDER W/SENSOR ACTIVATION
3	3'-0"	8'-0"	---	D-3	ALUM	FF	F-1	ALUM	FF	12/A501	8/A501	2/A501	2	AUTOMATIC SLIDER W/SENSOR ACTIVATION
4	3'-0"	8'-0"	---	D-3	ALUM	FF	F-1	ALUM	FF	12/A501	9/A501	2/A501	2	AUTOMATIC SLIDER W/SENSOR ACTIVATION
5	3'-0"	7'-0"	1 3/4"	D-1	SCW	STAIN	F-4	HOL. MTL.	PAINTED	20/A501	20/A501	---	4	
6	3'-0"	7'-0"	1 3/4"	D-1	SCW	STAIN	F-4	HOL. MTL.	PAINTED	20/A501	20/A501	5/A501	5	
7	3'-0"	7'-0"	1 3/4"	D-1	SCW	STAIN	F-4	HOL. MTL.	PAINTED	20/A501	20/A501	5/A501	5	
8	3'-0"	7'-0"	1 3/4"	D-1	HOLLOW METAL	PAINTED	F-2	HOL. MTL.	PAINTED	17/A501	17/A501	4/A501	7	PROVIDE WITH PEEPHOLE
9	8'-0"	12'-0"	---	D-2	SEE SPECS	FF	---	STEEL	PAINTED	---	19/A501	---	8	INSULATED OVERHEAD SECTIONAL DOOR
10	PR 3'-0"	8'-0"	---	D-4	IMPACT	FF	F-5	STEEL	PAINTED	18/A501(SIM)	18/A501	---	6	
11	PR 3'-0"	7'-0"	1 3/4"	D-1	HOLLOW METAL	PAINTED	---	EXISTING	PAINTED	---	---	4/A501	9	NEW H.M. DOORS IN EXISTING STEEL FRAME

TAYLORSVILLE ABC - REMODEL AND EXPANSION

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DOOR, WINDOW AND FINISH SCHEDULES

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STRUCTURAL NOTES

STRUCTURAL DESIGN LOADS

ROOF:
- DEAD LOAD: DL = 25 PSF
- GROUND SNOW LOAD: Pg = 30 PSF
- FLAT ROOF SNOW LOAD: Pf = 43 PSF
- SNOW EXPOSURE FACTOR: Ce = 1.0
- SNOW IMPORTANCE FACTOR: I = 1.0
- THERMAL FACTOR: Ct = 1.0

WIND LOAD:
- BASIC WIND SPEED: V = 90 MPH (3 SEC GUST)
- IMPORTANCE FACTOR: I = 1.0
- WIND EXPOSURE: "C"
- COMPONENT AND CLADDING PRESSURE: P = 20 PSF

SEISMIC:
- OCCUPANCY CATEGORY: II
- SPECTRAL RESPONSE COEF: SDS = 0.88, SD1 = 0.52
- SITE CLASS: D
- BASIC SEISMIC-FORCE-RESISTING SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALLS R=5, OMEGA=2.5, Cd=3.5, Cs=0.18

SOILS:
- NET ALLOWABLE SOIL PRESSURE = 1500 PSF TO BE FIELD VERIFIED

GENERAL

1. ALL DESIGN, CONSTRUCTION, AND INSPECTION SHALL BE IN CONFORMANCE WITH THE 2006 INTERNATIONAL BUILDING CODE.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.
4. DRAWINGS INDICATE THE FINISHED PRODUCT. THEY DO NOT INDICATE A METHOD OF CONSTRUCTION. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH PRECAUTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, ETC.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING THE OWNER FOR ANY CHANGES MADE AS A RESULT OF A DEVIATION FROM THE CONTRACT DOCUMENTS. DEVIATION FROM THE SPECIFICATIONS, FAULTY MATERIALS, OR FAULTY WORKMANSHIP.
6. OPTIONS ARE FOR THE CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED DESIGN CHANGES. COST ASSOCIATED WITH ANY DESIGN WORK INITIATED BY THE OPTION SHALL BE BORN BY THE CONTRACTOR.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.
8. TEMPORARY SHORING AND BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED INCLUDING WIND. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE COMPLETE.
9. DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS.
10. THE GENERAL CONTRACTOR SHALL HAVE SHOP DRAWINGS REVIEWED BY THE ARCHITECT PRIOR TO THE FABRICATION OR ERECTION FOR THE FOLLOWING ITEMS: REINFORCING STEEL, STRUCTURAL STEEL, MISCELLANEOUS METALS, PREFABRICATED WOOD JOISTS, PREFABRICATED STEEL JOISTS, PREFABRICATED WOOD TRUSSES AND GLU-LAM BEAMS.
11. ALL DETAILS, SECTIONS, AND NOTES ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS UNLESS NOTED OR SHOWN OTHERWISE.
12. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT COVERED ON THE DRAWINGS.
13. OBSERVATION VISITS TO THE JOB SITE BY FIELD REPRESENTATIVES OF CALDER RICHARDS CONSULTING ENGINEERS SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
14. SIZES, LOCATIONS, AND ANCHORAGES OF EQUIPMENT SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURERS (SUPPLIERS) PRIOR TO PLACING CONCRETE OR FABRICATING STEEL.

QUALITY ASSURANCE PLAN

1. SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER ACCORDING TO IBC CHAPTER 17 FOR THE ITEMS IDENTIFIED IN THIS SECTION AND ON THE CONTRACT DOCUMENTS.
2. THE NAMES AND CREDENTIALS OF SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A BUILDING PERMIT.
3. SPECIAL INSPECTION REPORTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD, ARCHITECT, AND OWNER (AS REQUESTED) BI-WEEKLY OR MORE FREQUENTLY AS REQUIRED BY THE INSPECTOR OR BUILDING OFFICIAL.
4. OFF-SITE FABRICATION: WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATORS SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE IN ACCORDANCE WITH IBC SECTION 1704.2 UNLESS THE FABRICATOR IS APPROVED ACCORDING TO IBC SECTION 1704.2.2.
5. STEEL CONSTRUCTION: SPECIAL INSPECTIONS FOR STEEL ELEMENTS SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 1704.3 AND TABLE 1704.3.
6. WELDING: WELDING INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1704.3.

QUALITY ASSURANCE PLAN

7. HIGH-STRENGTH BOLTS: PERIODIC SPECIAL INSPECTION SHALL BE PROVIDED FOR INSTALLATION OF HIGH-STRENGTH BOLTS IN ACCORDANCE WITH AISC SPECIFICATIONS. SEE IBC SECTION 1704.3.3.
8. CONCRETE CONSTRUCTION: SPECIAL INSPECTIONS AND VERIFICATIONS SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1704.4.
9. MASONRY CONSTRUCTION: LEVEL 1 SPECIAL INSPECTION SHALL BE PROVIDED FOR MASONRY CONSTRUCTION IN ACCORDANCE WITH SECTION 1704.5.2 AND TABLE 1704.5.1. TESTING SHALL COMPLY WITH SECTION 1708.1.3
10. SOILS: SPECIAL INSPECTION SHALL BE PROVIDED FOR PLACEMENT OF FILL 12 INCHES OR MORE DEEP IN ACCORDANCE WITH SECTION 1704.7.
11. EPOXY ANCHORS: PRIOR TO AND DURING EPOXY INJECTION TO INSURE PROPER INSTALLATION AS PER MANUFACTURERS REQUIREMENTS. CONTRACTOR SHALL SUBMIT PROPOSED EPOXY MANUFACTURERS ICBO REPORT TO STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

QUALITY ASSURANCE - CONTRACTOR RESPONSIBILITY

1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
   - A. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
   - B. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
   - C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
   - D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THE POSITION(S) IN THE ORGANIZATION.

STRUCTURAL DEFERRED SUBMITTALS

1. CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT TO ARCHITECT/ENGINEER BEFORE SUBMITTING TO JURISDICTION FOR REVIEW AND PERMITTING.

   ITEMS:
   1. OPEN WEB METAL JOISTS AND GIRDERS
   2. CONCRETE MIX DESIGN

FOOTINGS

1. ALL FOOTINGS SHALL BEAR 12" MINIMUM INTO ORIGINAL UNDISTURBED EARTH OR ON ENGINEERED FILL COMPACTED TO 95% OF MAXIMUM RELATIVE DENSITY BASED ON ASTM D1557-91. SUCH FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 6" IN DEPTH AFTER COMPACTION AND SHALL EXTEND DOWN TO IN-SITU GRANULAR SOILS.
2. FOOTING ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.
3. EXTERIOR WALL FOOTINGS SHALL BEAR AT A MINIMUM DEPTH OF 2'-6" BELOW FINISHED EXTERIOR GRADE.
4. NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
5. ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THE CONDITIONS USED FOR DESIGN OF FOOTINGS AS OUTLINED ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING.
6. DO NOT BACK FILL BEHIND FOUNDATION WALLS UNTIL TOP AND BOTTOM SLABS HAVE BEEN POURED AND ATTAINED THEIR DESIGN STRENGTHS.
7. BACK FILL BOTH SIDES OF FOUNDATION WALLS AT SAME TIME TO PREVENT OVERTURNING.
8. WHERE 6" DIAMETER OR LARGER PIPE PASSES THROUGH AN INTERIOR OR EXTERIOR FOUNDATION WALL, STEP THE FOOTING DOWN TO PASS BELOW PIPE AND THEN STEP BACK UP TO INDICATED ELEVATION. PROVIDE PIPE SLEEVE THROUGH FOUNDATION WALL.
9. ALL FOOTING EXCAVATIONS SHALL BE EXAMINED BY A GEOTECHNICAL ENGINEER FOR VERIFICATION OF ADEQUATE BEARING CONDITIONS BEFORE PLACING CONCRETE.

REINFORCING STEEL

1. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL 315-05 AND ACI STANDARD 318-05.
2. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. LAP ONE MESH TIE.
4. ALL REINFORCEMENT SHALL BE SECURELY TIED AND HELD IN PLACE.

REINFORCING STEEL

5. REINFORCING BARS THAT ARE TO BE WELDED, INCLUDING DEFORMED BAR ANCHORS (DBA) SHALL COMPLY WITH ASTM A706 OR ANOTHER WELDABLE GRADE AND SHALL BE WELDED IN ACCORDANCE WITH THE AWS RECOMMENDATIONS.
6. ALL CONTINUOUS REINFORCEMENT SHALL TERMINATE WITH A 90 DEGREE TURN OR A SEPARATE CORNER BAR. ALL SPLICE SHALL HAVE A MINIMUM LAP OR EMBEDMENT PER REINFORCING SCHEDULE.
7. WHERE THE LENGTH OF A BAR IS GIVEN AND IT IS TO BE HOOKED, THE HOOK SHALL BE IN ADDITION TO THE LENGTH GIVEN, UNLESS SHOWN OTHERWISE.
8. COVER TO MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE:
   - A. UNFORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO THE WEATHER (BOTTOM OF FOOTINGS). 3"
   - B. SLABS ON GRADE..... 2"
   - C. FORMED SURFACES IN CONTACT WITH THE GROUND OR EXPOSED TO THE WEATHER (GRADE BMS, WALLS, ETC), BEAMS AND COLUMNS..... 2"
   - D. STRUCTURAL SLABS AND JOISTS NOT EXPOSED TO WEATHER OR EARTH..... 1"
   - E. INTERIOR WALL SURFACES..... 1"
   - F. INTERIOR BEAMS AND COLUMNS..... 1-1/2"
   - G. IN ALL CASES MINIMUM COVER SHALL NOT BE LESS THAN THE DIAMETER OF ADJACENT BARS.
9. PRIOR TO FABRICATION AND PLACEMENT, SHOP DRAWINGS FOR ALL REINFORCING STEEL SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

CONCRETE

1. CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
   - FOOTINGS & FOUNDATION WALLS..... 3000 PSI
   - INTERIOR SLABS ON GRADE..... 4000 PSI
   - EXTERIOR FLAT WORK..... 4000 PSI
2. A STATEMENT OF MIX DESIGN FOR ALL CONCRETE SHALL BE SUBMITTED TO AND REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
3. ALL CONCRETE WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS AND PRACTICES.
4. UNLESS NOTED OTHERWISE ON THE DRAWINGS, REINFORCE CONCRETE WALLS AS FOLLOWS:

WIDTH	HORIZ REINF	VERT REINF
8" WALL	#5 @ 12"	#5 @ 16" CENTER OF WALL

5. DOWEL VERTICAL BARS 36 DIAMETERS INTO STRUCTURE ABOVE AND FOOTINGS BELOW. PROVIDE 90 DEGREE HOOK WHERE 36 DIAMETER IS NOT POSSIBLE. IN ADDITION, PROVIDE (2) #5 CONTINUOUS BARS TOP AND BOTTOM OF 6" AND 8" WALLS AND (2) #6 BARS TOP AND BOTTOM OF WALLS 10" OR THICKER.
6. BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC. RELATIVE TO WORK.
7. ADD (2) #5 BARS MINIMUM AROUND ALL OPENINGS (UNLESS OTHERWISE NOTED) AND EXTEND 24" BEYOND CORNER OF OPENING.
8. WHERE OPENINGS LARGER THAN 16" IN ANY DIRECTION OCCUR IN WALLS OR SLABS, PROVIDE SAME SIZE ADDITIONAL, FULL LENGTH REINFORCING AT EACH SIDE OF OPENING EQUAL TO 1/2 THE NUMBER OF BARS INTERRUPTED BY THE OPENING. SPACE ADDITIONAL BARS AT 4 x BAR DIAMETER.
9. ALL SLABS ON GRADE SHALL BE PLACED IN ALTERNATE PANELS WITH A MAXIMUM WIDTH OF 20' BETWEEN CONTROL OR CONSTRUCTION JOINTS; REFER TO TYPICAL DETAILS ON DRAWINGS. UNLESS OTHERWISE NOTED, SLABS ON GRADE SHALL BE 4" THICK AND SHALL BE REINFORCED WITH 6x6-W1.4xW1.4 WELDED WIRE FABRIC.
10. REFER TO DRAWINGS FOR TYPICAL CONSTRUCTION JOINT DETAILS. UNLESS NOTED IN DRAWINGS, ALL REINFORCEMENT SHALL BE CONTINUOUS THRU JOINTS AND EACH CONSTRUCTION JOINT SHALL BE KEYED.
11. FORMS, SCREEDS, AND BEAMS SUPPORTING SUSPENDED CONCRETE SHALL BE CAMBERED 1/4 INCH PER 10 FEET OF SPAN TO COMPENSATE FOR DEAD LOAD DEFLECTIONS.
12. WHERE EXTERIOR SLABS ON GRADE ABUT WALLS OR COLUMNS PROVIDE 3/8" PREFORMED EXPANSION JOINT WITH SEALANT.

MASONRY (CMU)

1. ALL MASONRY SHALL BE REINFORCED WITH BOTH HORIZONTAL AND VERTICAL REINFORCEMENT. ALL BLOCK CELLS OR BRICK CAVITIES WITH REINFORCEMENT SHALL BE GROUTED FULL USING CONCRETE 2000 PSI GROUT. CELLS SHALL BE ALIGNED TO PRESERVE UNOBSTRUCTED VERTICAL CAVITIES OF 2"x3" MINIMUM.
2. CONCRETE FOR BLOCK FILL SHALL HAVE 3/8" MAXIMUM SIZE COURSE AGGREGATE AND SUFFICIENT WATER SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS. WHERE BEAMS BEAR ON CONCRETE BLOCK WALLS. BLOCK CELLS SHALL BE FILLED WITH CONCRETE 1'-4" WIDE TO FOUNDATION AND REINFORCE WITH A #5 EACH CELL, UNLESS OTHERWISE SHOWN.
3. AN ADDITIONAL VERTICAL BAR (MATCHING WALL REINFORCEMENT) SHALL BE PLACED AT EACH CORNER, END OF WALL, AND JAMB OF ALL OPENINGS.
4. ALL STEEL JOIST, JOIST GIRDER, AND STEEL BEAM POCKETS IN MASONRY SHALL BE GROUTED SOLID UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
5. HORIZONTAL BARS SHALL BE PLACED IN BOND BEAMS FILLED WITH GROUT AT THE TOP OF ALL WALLS AND AT 48" OC MAXIMUM BETWEEN TOP OF WALL AND FOUNDATION. BOND BEAM UNITS AND REINFORCING SHALL CONTINUE UNINTERRUPTED AROUND ALL CORNERS AND WALL INTERSECTIONS. WHERE STRUCTURAL STEEL COLUMNS OR BEAMS INTERRUPT THE CONTINUITY OF A BOND BEAM, DOWELS MATCHING BOND BEAM REINFORCEMENT SHALL BE WELDED TO THE STRUCTURAL STEEL TO PROVIDE CONTINUITY.

MASONRY (CMU)

6. ALL VERTICAL REINFORCING BARS SHALL BE DOWELED TO STRUCTURE BELOW WITH BARS OF SAME SIZE AND SPACING. LAP ALL SPLICES IN MASONRY PER REBAR SHEDULE. PLACE ALL BARS SECURELY PRIOR TO GROUTING.
7. MASONRY REINFORCEMENT: THE MINIMUM REINFORCEMENT IN GROUTED CELLS FOR ALL MASONRY WALLS SHALL BE AS FOLLOWS:
   - 8" WALLS: #5 @ 32" OC VERTICAL AND (2) #4 @ 48" OC HORIZONTAL
8. ALL HORIZONTAL REINFORCING SHALL TERMINATE WITH A HOOK AROUND VERTICAL REINFORCING.
9. IN ADDITION LADDER-TYPE REINFORCING CONSISTING OF #9 WIRE FOR EACH FACE SHELL OF EACH WYTHE SHALL BE USED AT 16" OC HORIZONTALLY IN ALL MASONRY WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.
10. CONCRETE MASONRY UNITS SHALL BE GRADE N UNITS CONFORMING TO ASTM DESIGNATION C90 AND SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 1900 PSI ON THE NET SECTION.
11. MORTAR SHALL BE TYPE "S" AND SHALL HAVE THE FOLLOWING PROPORTIONS BY VOLUMES:

    PORTLAND CEMENT..... 1 PART
    HYDRATED LIME..... 1/4 - 1/2 PART
    DAMP LOOSE AGGREGATE.. NOT LESS THAN 2-1/4 AND NOT MORE THAN (3) TIMES THE SUM OF CEMENT AND LIME USED.
12. STOP GROUT POURS 1/2" BELOW TOP OF BLOCK UNITS.
13. ALL ANCHOR BOLTS MUST BE PLACED IN GROUTED CELLS.
14. NO MASONRY SHALL BE LAID WHEN THE TEMPERATURE OF THE OUTSIDE AIR IS BELOW 40 DEGREES FARENHEIT, UNLESS APPROVED METHODS ARE USED DURING CONSTRUCTION TO PREVENT DAMAGE TO THE MASONRY. SUCH METHODS SHALL INCLUDE PROTECTION OF THE MASONRY FOR A PERIOD OF AT LEAST 48 HOURS.
15. ALL REINFORCING SHALL BE IN PLACE PRIOR TO GROUTING. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION AT THE TOP, BOTTOM AND AT INTERVALS NOT FARTHER APART THAN 200 BAR DIAMETERS. PROVIDE WIRE TIES AT ALL LAP SPLICES.
16. ALL MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT: MAJOR CHANGES IN WALL HEIGHT, AT CHANGES IN WALL THICKNESS, AT BUILDING CONSTRUCTION JOINTS, AND NOT FARTHER APART THAN 40 FEET ELSEWHERE. PROVIDE MATCHING CONTROL JOINTS FOR BRICK VENEER. CONSULT ARCHITECTURAL DRAWINGS FOR LOCATIONS. VERTICAL CELLS EACH SIDE OF CONTROL JOINTS SHALL BE GROUTED AND REINFORCED WITH REBARS TO MATCH VERTICAL REINFORCEMENT USED THROUGHOUT THAT WALL. ONLY HORIZONTAL REBARS IN BOND BEAMS AT FLOORS AND AT ROOF LEVEL SHALL CONTINUE THROUGH CONTROL JOINTS. PROVIDE FULL HEIGHT HARD RUBBER KEY AT JOINT. WHERE JOINT LOCATIONS ARE NOT SHOWN ON THE DRAWINGS THE CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS TO ARCHITECT/ENGINEER FOR REVIEW.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL AND STRUCTURAL STEEL WORK SHALL COMPLY WITH BOTH THE AISC "MANUAL OF STEEL CONSTRUCTION" CONTAINING THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS, INCLUDING THE "CODE OF STANDARD PRACTICES" (LATEST EDITION), AND WITH THE IBC 2003 EDITION.
2. ALL WIDE FLANGE STRUCTURAL STEEL SHALL BE ASTM A992 AND ALL MISCELLANEOUS SHAPES SHALL BE ASTM A36, UNO.
3. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B; YIELD STRESS = 46 KSI.
4. STRUCTURAL STEEL PIPE COLUMNS SHALL CONFORM TO ASTM A501, GRADE B; YIELD STRESS = 35 KSI.
5. USE A325 BOLTS FOR STEEL TO STEEL CONNECTIONS AND A307 BOLTS FOR ALL OTHER CONNECTIONS. USE 3/4" DIAMETER MINIMUM.
6. PRIOR TO FABRICATION AND ERECTION, SHOP DRAWINGS FOR ALL STEEL ITEMS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWING DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.
7. ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES AND BY WELDERS CERTIFIED BY AWS STANDARDS WITHIN THE PAST 12 MONTHS; PROVIDE WRITTEN CERTIFICATION IF REQUESTED.
8. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE APPROPRIATE MINIMUM BOLT TENSION IN ACCORDANCE WITH "AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." THE PREFERRED METHOD OF TIGHTENING IS BY USE OF A "DIRECT TENSION INDICATOR." THE TURN-OF-NUT METHOD MAY ALSO BE USED. PROVIDE CARBONIZED WASHERS UNDER THE TURNED ELEMENT.
9. ALL STEEL JOISTS, JOIST GIRDERS, AND ASSOCIATED WORK SHALL COMPLY WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE". UNLESS SHOWN OTHERWISE, PROVIDE BRIDGING IN ACCORDANCE WITH THIS SPECIFICATION AS A MINIMUM. JOIST FABRICATOR SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE (SJI). JOISTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT AND HE SHALL SEAL AND SIGN ALL DESIGN CALCULATIONS AND JOISTS SHOP DRAWINGS. DESIGN SHALL COMPLY WITH ALL LOADING REQUIREMENTS INDICATED ON THE DRAWINGS AND NOTES. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL CLEARLY INDICATE ALL LOADINGS, DIMENSIONS, MEMBER FORCES, REACTIONS, MEMBER SIZES, WELD REQUIREMENTS AND JOINT DETAILS. JOISTS SHALL BE DESIGNED ASSUMING HORIZONTAL MOVEMENT IS ALLOWED AT ONE END, UNLESS NOTED OTHERWISE.
10. ALL BRIDGING SHALL BE SECURELY ANCHORED AT END OF EACH RUN. WELD TO STEEL BEAM OR ANCHOR TO MASONRY WALL WITH 3/8" ANCHOR BOLTS.
11. WHERE JOISTS CAN NOT BEAR 2-1/2" ON STEEL BEAMS, STAGGER LOCATION OF JOISTS TO PROVIDE 2-1/2" MINIMUM BEARING ON BEAM.
12. CONCENTRATED LOADS SHALL NOT BE PLACED ON NOR HUNG FROM JOISTS UNLESS THEY ARE PLACED AT PANEL POINTS OR A BRACE (L1-1/2x1-1/2x1/8) IS INSTALLED BETWEEN THE LOAD AND PANEL POINT. CONCENTRATED LOADS NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR REVIEW.

STRUCTURAL STEEL

13. OPEN WEB ROOF JOISTS AND GIRDERS SHALL BE DESIGNED FOR A NET WIND UPLIFT OF 10 PSF, UNLESS NOTED OTHERWISE.
14. OPEN WEB ROOF JOISTS AND GIRDERS SHALL BE DESIGNED FOR THE FOLLOWING DEFLECTION LIMITS:
    - LIVE OR SNOW LOAD SPAN/360
    - TOTAL LOAD SPAN/240
15. PROVIDE CAMBER IN OPEN WEB JOIST AND GIRDER PER STEEL JOIST INSTITUTE RECOMMENDATIONS, UNLESS NOTED OTHERWISE.
16. JOIST MANUFACTURER TO DESIGN JOIST TOP CHORD WITH UNBRACED LENGTH EQUAL TO SKYLIGHT OPENING.
17. WHERE STEEL JOIST OR GIRDER SLOPE EXCEEDS 1/4" PER FOOT, PROVIDE SLOPED BEARING SEAT.
18. THE STEEL JOIST AND GIRDER MANUFACTURER SHALL SUBMIT ERECTION DRAWINGS AND STAMPED CALCULATIONS BY A LICENSED CIVIL OR STRUCTURAL ENGINEER TO THE ENGINEER OF RECORD FOR REVIEW.
19. JOISTS SHALL BE DESIGNED FOR AN ADDITIONAL 500 LBS CONCENTRATED LOAD AT ANY ONE PANEL POINT.
20. GIRDERS SHALL BE DESIGNED FOR AN ADDITIONAL 1000 LBS CONCENTRATED LOAD AT ANY ONE PANEL POINT.
21. JOIST MANUFACTURER TO DESIGN FOR THE MECHANICAL UNITS SHOWN WITH WEIGHTS GREATER THAN 500 LBS.
22. SPECIAL INSPECTIONS AND TESTING OF WELDS AS REQUIRED BY IBC 2006 SHALL BE PROVIDED BY THE OWNER.
23. MECHANICAL ROOF TOP UNITS SHALL BE PLACED OVER ADDITIONAL OR SPECIAL JOISTS AS SHOWN ON DRAWINGS. THE WEIGHT, SIZE AND LOCATION OF ALL PROPOSED UNITS AND CURBS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR VERIFICATION BEFORE FABRICATION OF STEEL.
24. FRAMES FOR ROOF OPENINGS AND SUPPORTS FOR ROOF MOUNTED MECHANICAL EQUIPMENT ARE INDICATED ON DRAWINGS FOR BID PURPOSES ONLY. UPON RECEIPT OF MECHANICAL SUBMITTALS, THE CONTRACTOR SHALL FURNISH STEEL SUPPLIER SUPPLEMENTARY DRAWINGS OR OTHER INFORMATION NECESSARY TO LAYOUT AND DETAIL THIS PORTION OF THE WORK. OTHER STEEL WORK SHALL NOT BE DELAYED BY THIS PORTION OF THE WORK. SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.
25. STEEL ROOF DECK SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE STEEL DECK INSTITUTE, SDI. SUBMIT ICBO REPORT WITH SHOP DRAWINGS.
26. WHERE POSSIBLE, ALL DECK SHALL BE (3) SPAN CONTINUOUS MINIMUM. IN AREAS WHERE (3) SPAN CONDITIONS ARE NOT POSSIBLE, THE DECK SHALL MEET THE LOADING CRITERIA FOR THE SPAN CONDITION. THE CONTRACTOR SHALL PROVIDE HEAVIER GAGE DECK AND/OR SHORING AS REQUIRED.
27. DECK SHALL HAVE A MINIMUM BEARING LENGTH OF 2".

TAYLORSVILLE LIQUOR STORE REMODEL & ADDITION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

FRANK N MURDOCK JR Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102
TEL: (801) 532-4441 FAX (801) 532-4220

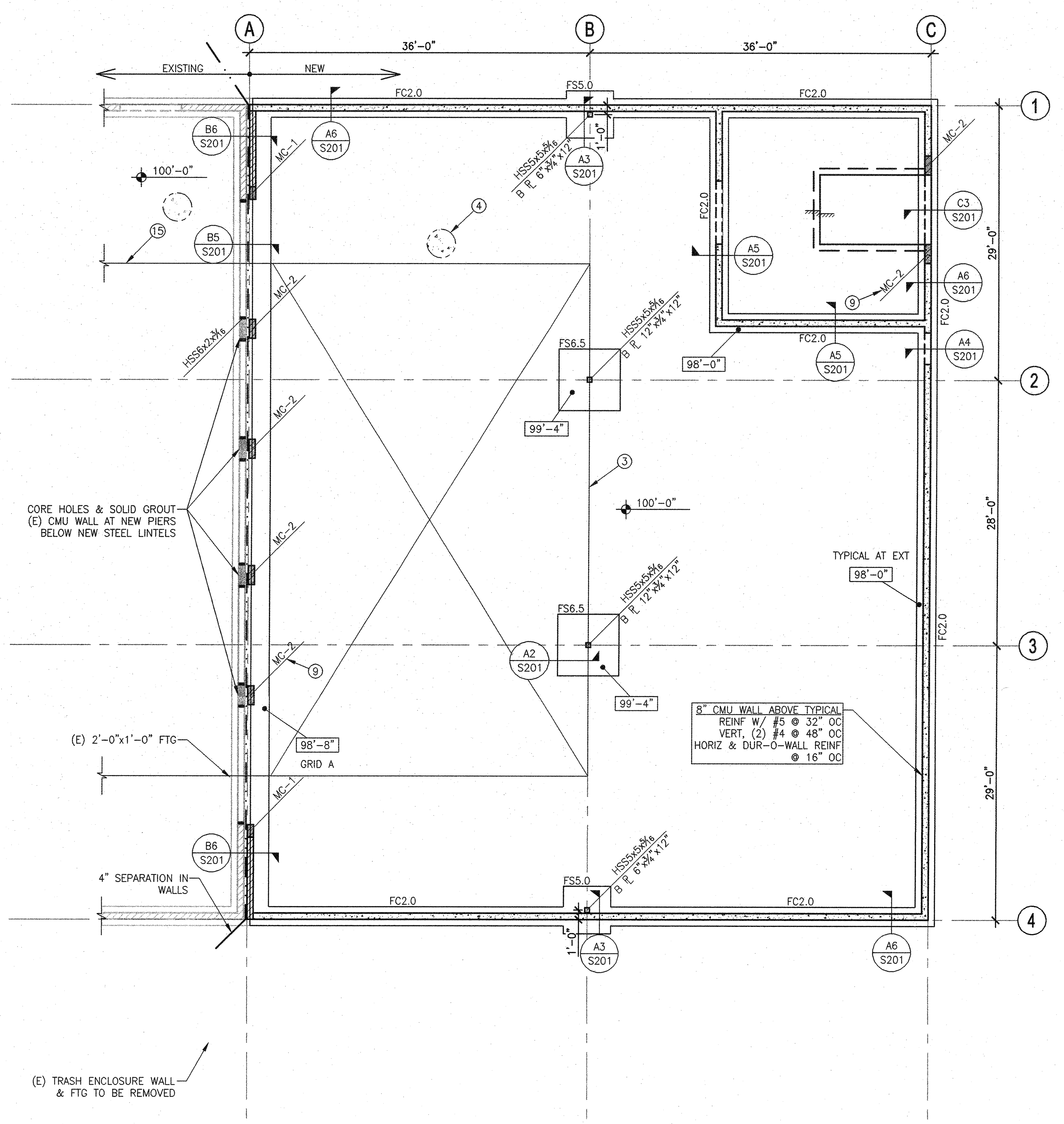
STRUCTURAL NOTES

LICENSED PROFESSIONAL ENGINEER — No. 191304 — SHAUN A. PACKER — STATE OF UTAH

REVISION # DATE:

PERMIT DRAWINGS
FILE NAME: S001
PLOT SCALE: 3/4"=1'-0"
DRAWN BY: JRS
CHECKED BY: SP
DATE: 03/18/08

S001



FOOTING & FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES (FTG & FDTN):

◯ CIRCLED NOTES ARE KEYED ON PLAN.

1. SEE STRUCTURAL NOTES ON **SHEET S001** FOR ADDITIONAL INFORMATION.
2. TOP OF SLAB ELEVATION = 100'-0", UNLESS NOTED THUS: xxx'-xx" SLOPE UNIFORMLY TO FLOOR DRAINS.
3. (circled) SEE DETAIL **A1/S201** FOR TYPICAL STEP IN SLAB. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF STEPS.
4. (circled) SLAB ON GRADE SHALL BE 5" CONCRETE OVER 4" FREE-DRAINING GRAVEL, UNO. REINFORCE SLAB WITH 6x6-W1.4xW1.4 WWF (USE FLAT SHEETS).
5. PLACE CONTROL JOINTS AND CONSTRUCTION JOINTS IN SLAB PER STRUCTURAL NOTES. SEE DETAIL **B2/S201**.
6. SEE PLAN FOR FOOTING TYPE. SEE SCHEDULE **THIS SHEET** FOR FOOTING SIZE AND REINFORCEMENT.
7. CENTER FOOTINGS ON WALLS AND COLUMNS UNLESS DIMENSIONED OTHERWISE ON PLANS.
8. SEE PLAN AND SECTIONS FOR TOP OF FOUNDATION WALL ELEVATIONS.
9. (circled) SEE DETAIL **D5/S201** FOR MASONRY COLUMN SCHEDULE INDICATING SIZE AND REINFORCEMENT.
10. SEE DETAIL **B1/S201** FOR CONTROL/EXPANSION JOINTS IN MASONRY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
11. SEE DETAILS **B3/S201 & C2/S201** FOR TYPICAL CONCRETE AND MASONRY WALL REINFORCEMENT DETAILS.
12. SEE DETAIL **B4/S201** FOR TYPICAL STEP IN FOOTING.
13. FOUNDATION DESIGN INFORMATION TO BE FIELD VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING ANY CONCRETE.
14. SEE ARCHITECTURAL/SITE DRAWINGS FOR INFORMATION AND LOCATION OF SITE WALLS, STEPS, PLANTERS, RAMPS, ETC.
15. (circled) SEE DETAIL C1/S201 FOR DEPRESSED SLAB CONDITION AT EXISTING. SEE ARCHITECTURAL PLANS FOR LOCATIONS.

LEGEND:

Symbol	Description
FCx.0, FSx.0, FRx.0/y.0	CONTINUOUS FOOTING, SPOT FOOTING TYPES RESPECTIVELY, SEE SCHEDULE
	CONC SLAB ON GRADE
FCx.x	CONCRETE FOOTING & FDTN WALL
	CONC WALL
	RECESS IN CONC FDTN WALL
MC-#	MASONRY COLUMN IN WALL ABOVE
□	STEEL COLS – TUBE
xx'-xx"	TOP OF FTG ELEVATION

FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT		NOTES
	WIDTH x THICK x LENGTH	LONGITUDINAL	TRANSVERSE	
FC2.0	2'-0" x 1'-0" x CONT	(3) #4	–	
FS5.0	5'-0"x1'-0"x5'-0"	(5) #5	(5) #5	
FS6.0	6'-6"x1'-2"x6'-6"	(7) #5	(7) #5	

FOOTING NOTES:

1. PLACE CROSSWISE REINFORCING 3" CLEAR FROM GRADE AND LENGTHWISE REINFORCING ON TOP OF CROSSWISE.
2. ALL CONTINUOUS FOOTINGS SHALL BE FC2.0 AND SQUARE FOOTINGS SHALL BE FS2.0, MINIMUM, UNO ON PLANS.

FOOTING SCHEDULE

3110.00 R-SCHFTGS FOOTING SCHEDULE SCALE: NONE

TAYLORSVILLE LIQUOR STORE REMODEL & ADDITION

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

FOOTING & FOUNDATION PLAN

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LICENSED PROFESSIONAL ENGINEER No. 191304 SHAUN A. PACKER STATE OF UTAH 3-18-08

REVISION # DATE:

PERMIT DRAWINGS
FILE NAME: S101
PLOT SCALE: 1/8"=1'-0"
DRAWN BY: JRS
CHECKED BY: SP
DATE: 03/18/08

CALDER RICHARDS CONSULTING ENGINEERS
2015 SOUTH 1100 EAST, SALT LAKE CITY, UT 84106
T: 801.466.1699 F: 801.467.2495

S101

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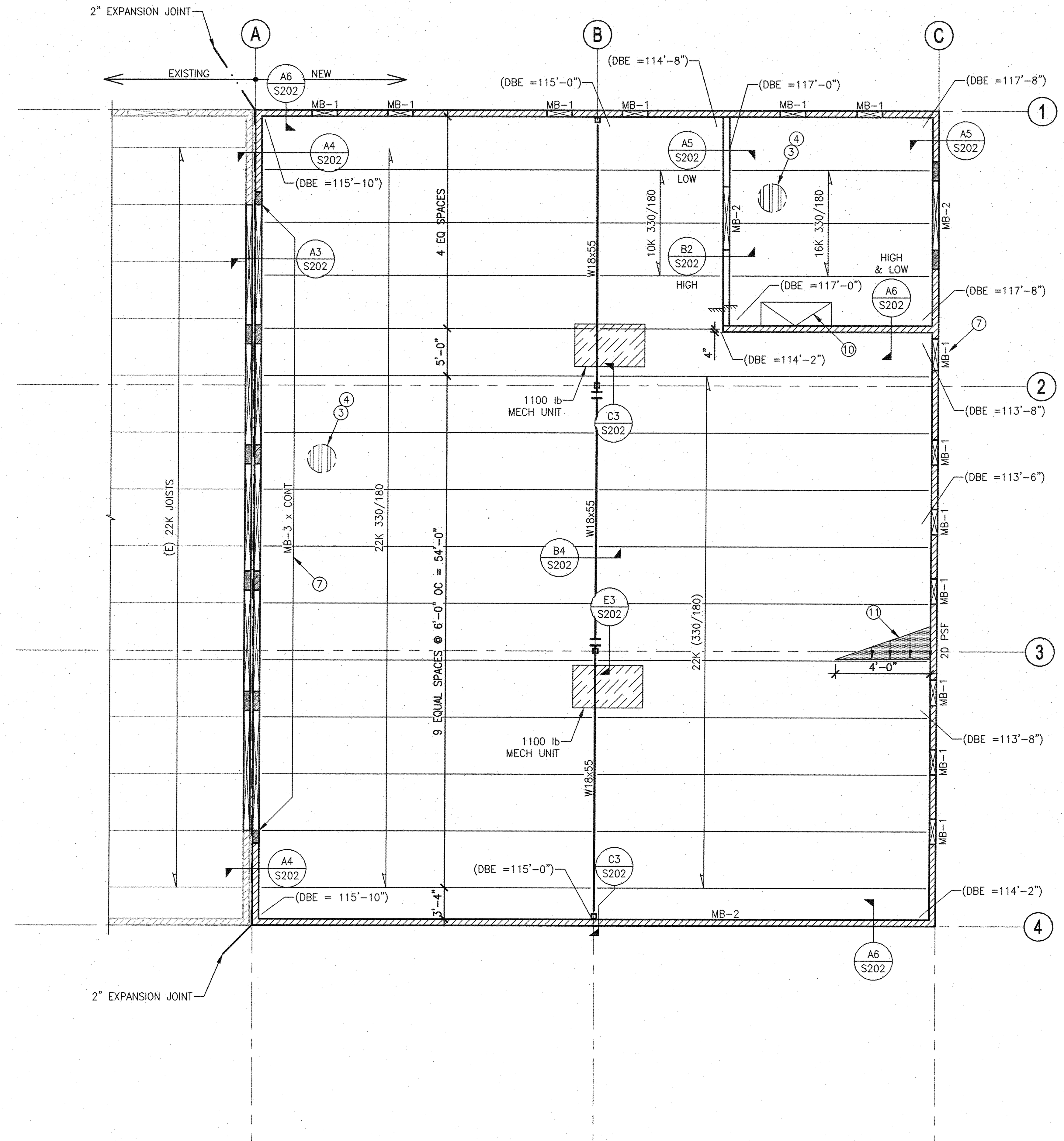

ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES (ROOF FRAMING):

○ CIRCLED NOTES ARE KEYED ON PLAN.

1. SEE STRUCTURAL NOTES ON **SHEET S001** FOR ADDITIONAL INFORMATION.
2. DECK BEARING ELEVATION SHOWN ON PLAN THUS: (DBE = xxx'-xx") ADJUST TOP OF FRAMING TO PROVIDE UNIFORM SLOPE BETWEEN ELEVATIONS SHOWN ON PLAN.
3. (circled) ROOF DECK SHALL BE 1½" VERCO TYPE HSB-36, 20 GAUGE, PAINTED, OR EQUIVALENT. PLACE DECK 3 SPANS CONTINUOUS, MINIMUM.
4. (circled) DECK ATTACHMENT AS FOLLOWS:
   A. DECK SPAN PERPENDICULAR TO SUPPORTS: (7) ¾"ø PUDDLE WELDS
   B. DECK SPAN PARALLEL TO SUPPORTS: ¾"ø PUDDLE WELDS @ 12" OC
   C. SEAMS: 1½" TOP SEAM WELDS @ 24" OC
5. ALL CONTINUOUS DECK ANGLES TO BE FULL DEVELOPMENT BUTT WELDED AT SPLICES.
6. SEE **A2/S202** FOR TYPICAL ROOF OPENING DETAIL.
7. (circled) SEE DETAIL **B5/S202** FOR MASONRY BEAM SCHEDULE INDICATING SIZE & REINFORCEMENT.
8. SEE DETAIL **B1/S201** FOR CONTROL JOINTS IN MASONRY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
9. SEE DTL B3/S202 FOR DECK SUPPORT AT ROOF PIPE/DRAINS.
10. (circled) ROOF HATCH. SEE ARCHITECTURAL DRAWINGS.
11. (circled) DENOTES SNOW DRIFT LOADING ALONG WALL LINE. JOIST MANUF TO DESING JOISTS FOR DRIFT LOAD SNOW IN ADDITION TO INIFORM LOADS.

LEGEND:

- STEEL ROOF DECK, W/ SPAN DIRECTION INDICATED
- MASONRY WALL (SHADED IF GROUTED SOLID)
- MB-# MASONRY BEAM
- BEAM
- JOIST
- (E) BEAM OR GIRDER
- (E) JOIST
- STEEL LINTEL IN (E) MASONRY WALL
- STEEL COL

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ROOF FRAMING PLAN

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LICENSED PROFESSIONAL ENGINEER No. 191304 SHAUN A. PACKER STATE OF UTAH 3-18-08

REVISION # DATE:

PERMIT DRAWINGS
FILE NAME: S102
PLOT SCALE: 1/8"=1'-0"
DRAWN BY: JRS
CHECKED BY: SP
DATE: 03/18/08

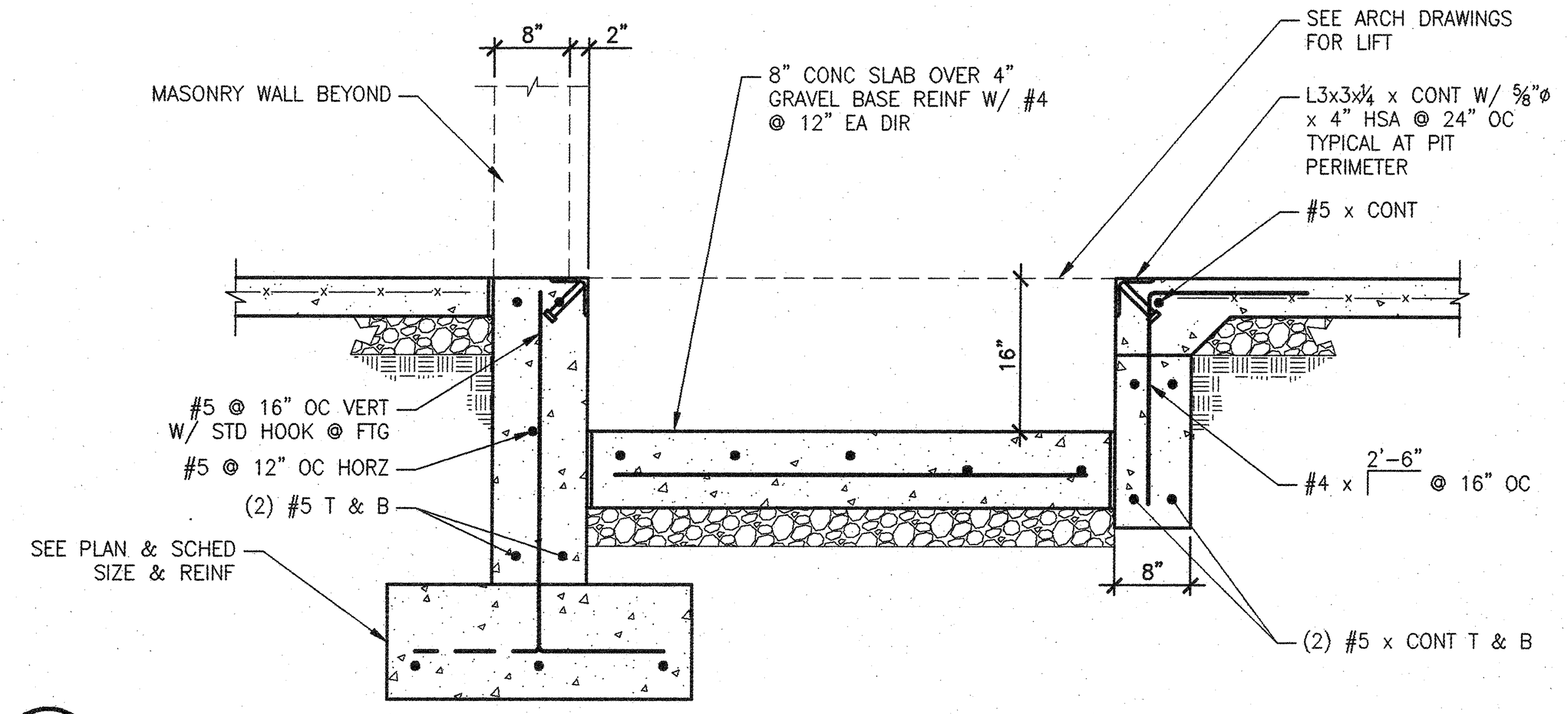
S102

E1 DETAIL
SCALE: 3/4" = 1'-0"

E2 DETAIL
SCALE: 3/4" = 1'-0"

E3 DETAIL
SCALE: 3/4" = 1'-0"

E4 DETAIL
SCALE: 3/4" = 1'-0"



C3
SCALE: 3/4" = 1'-0"

E5 DETAIL
SCALE: 3/4" = 1'-0"

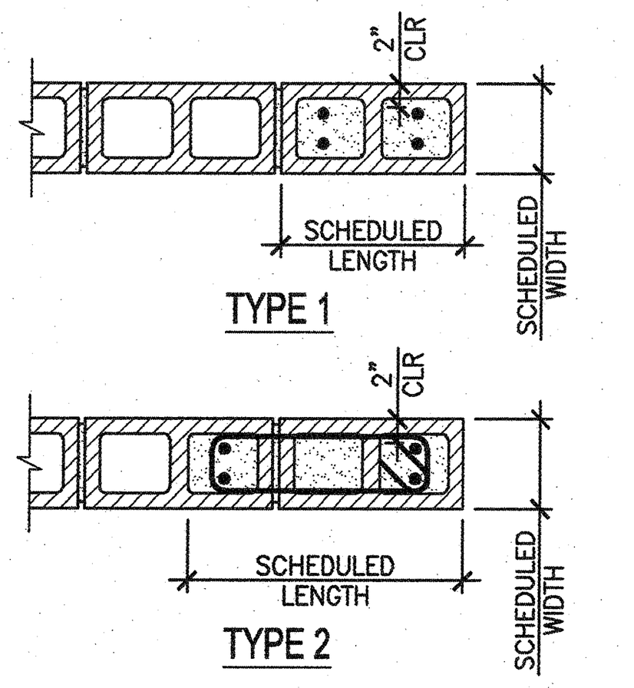
MASONRY COLUMN SCHEDULE

MARK	LENGTH	WIDTH	REINFORCEMENT		TYPE
			VERTICAL	HORIZONTAL TIES	
MC-1	16"	WALL	(4) #5	–	1
MC-2	24"	WALL	(4) #5	#3 @ 8" OC	2

MASONRY COLUMN NOTES:

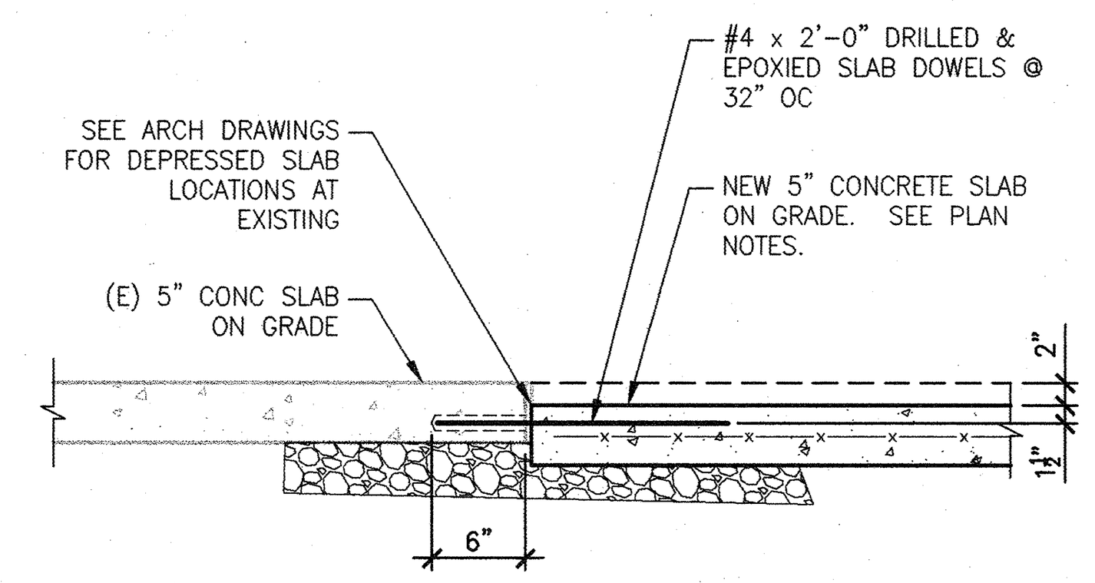
1. HORIZONTAL WALL REINFORCEMENT SHALL RUN CONTINUOUS THROUGH MASONRY COLUMNS.
2. GROUT ALL REINFORCED CELLS AND VOIDS SOLID.
3. MASONRY COLUMNS REINFORCING SHALL EXTEND FULL HEIGHT FROM ROOF DOWN TO FOUNDATION. DOWEL VERT REINF INTO FOUNDATIONS.
4. SEE ARCHITECTURAL DRAWINGS FOR SPECIAL COURSING ARRANGEMENTS.

E6 DETAIL
SCALE: 3/4" = 1'-0"



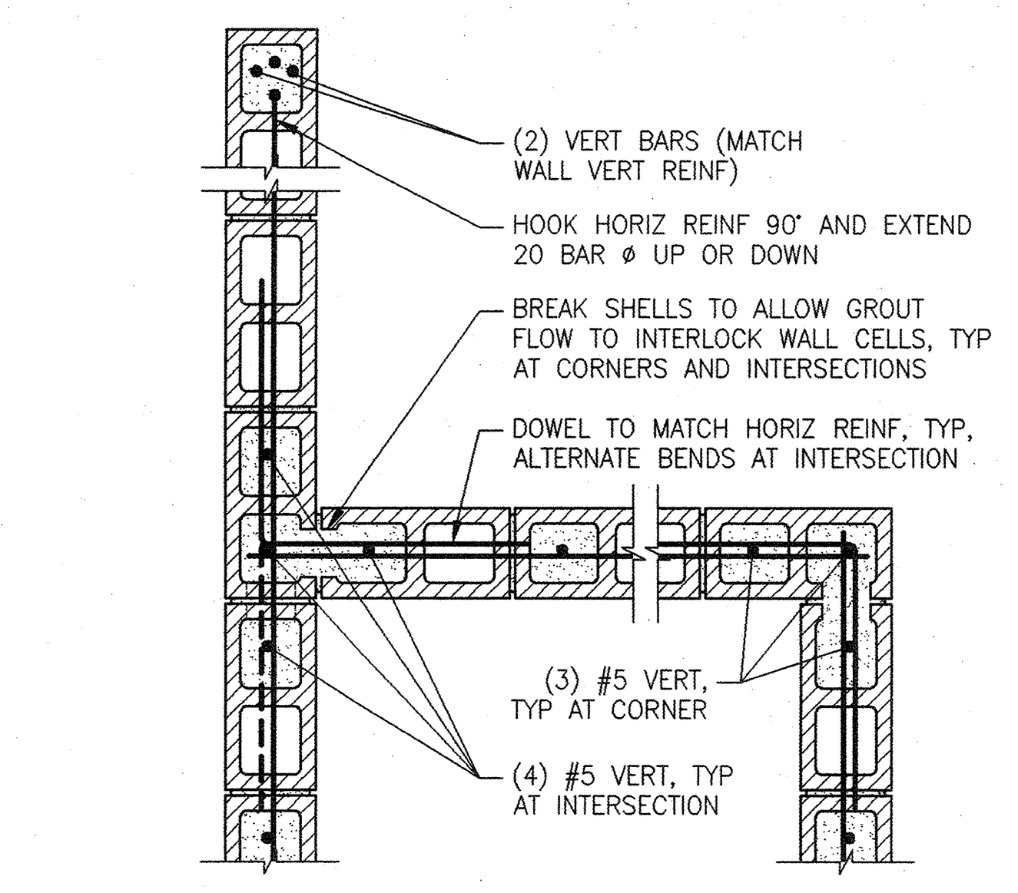
D5 MASONRY COLUMN SCHEDULE
5310.00 SCALE: NONE

D1 DETAIL
SCALE: 3/4" = 1'-0"



C1 DETAIL
SCALE: 3/4" = 1'-0"

D2 DETAIL
SCALE: 3/4" = 1'-0"



C2
5252_03 SCALE: 3/4" = 1'-0"

REINFORCING LAP LENGTH SPLICE SCHEDULE

TENSION BARS "Ld"

BAR SIZE	f'c=3000psi				f'c=4000psi				f'c=5000psi				f'c=6000psi			
	REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	17"	22"	22"	28"	15"	19"	19"	24"	13"	17"	17"	22"	12"	16"	16"	21"
#4	22"	29"	29"	38"	18"	25"	26"	33"	17"	22"	23"	30"	16"	20"	21"	27"
#5	28"	36"	37"	48"	24"	31"	32"	42"	21"	28"	24"	37"	20"	25"	26"	34"
#6	33"	43"	45"	58"	29"	37"	39"	50"	26"	33"	35"	45"	24"	30"	32"	41"
#7	48"	63"	63"	82"	42"	55"	55"	71"	37"	48"	48"	62"	34"	45"	45"	58"
#8	55"	72"	72"	93"	48"	63"	63"	81"	42"	55"	55"	71"	39"	51"	51"	66"
#9	62"	81"	81"	105"	54"	71"	71"	92"	48"	62"	62"	80"	44"	57"	57"	74"
#10	70"	91"	91"	118"	61"	79"	79"	103"	54"	70"	70"	90"	50"	65"	65"	84"
#11	78"	101"	101"	131"	68"	88"	88"	114"	60"	77"	77"	100"	55"	72"	72"	93"

NOTES:

1. THE SCHEDULE SHOWN APPLIES TO REG WT CONCRETE WITH 60ksi GRADE REINFORCING BARS.
2. TOP BARS ARE HORIZONTAL BARS WITH 12" (OR MORE), OF FRESH CONCRETE CAST BELOW THE BARS.
3. CLASS "A" SPLICES SHALL BE USED WHEN 50% (OR LESS) OF BARS SPLICED WITHIN LAP.
4. CLASS "B" SPLICES SHALL BE USED FOR ALL ELSE, TYPICALLY WITH SHEARWALLS, COLUMNS, BEAMS & SLABS.
5. FOR EPOXY COATED BARS, INCREASE LAP LENGTHS AS FOLLOWS:
   TOP BARS: Ld x 1.7
   REGULAR BARS: Ld x 1.5
6. FOR BUNDLED BARS, INCREASE LAP LENGTHS AS FOLLOWS:
   BUNDLED BARS, THREE OR LESS: Ld x 1.2
   BUNDLED BARS, FOUR OR MORE: Ld x 1.33
   INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
7. LAP SPLICES ARE NOT ALLOWED FOR TIES AND STIRRUPS

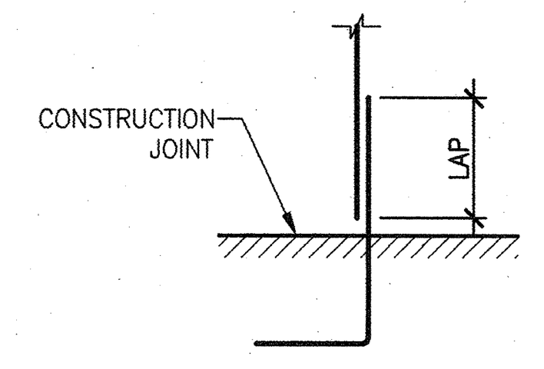
C3
3747_01 Reinforcing Lap Splice Schedule SCALE: NONE

MASONRY REBAR SPLICE SCHEDULE

BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
MASONRY SINGLE MAT	1'-7"	2'-1"	2'-7"	4'-4"	5'-1"	6'-2"	7'-10"	MECH	MECH
MASONRY DOUBLE MAT	1'-7"	2'-4"	3'-6"	6'-10"	9'-1"	12'-5"	15'-4"	MECH	MECH

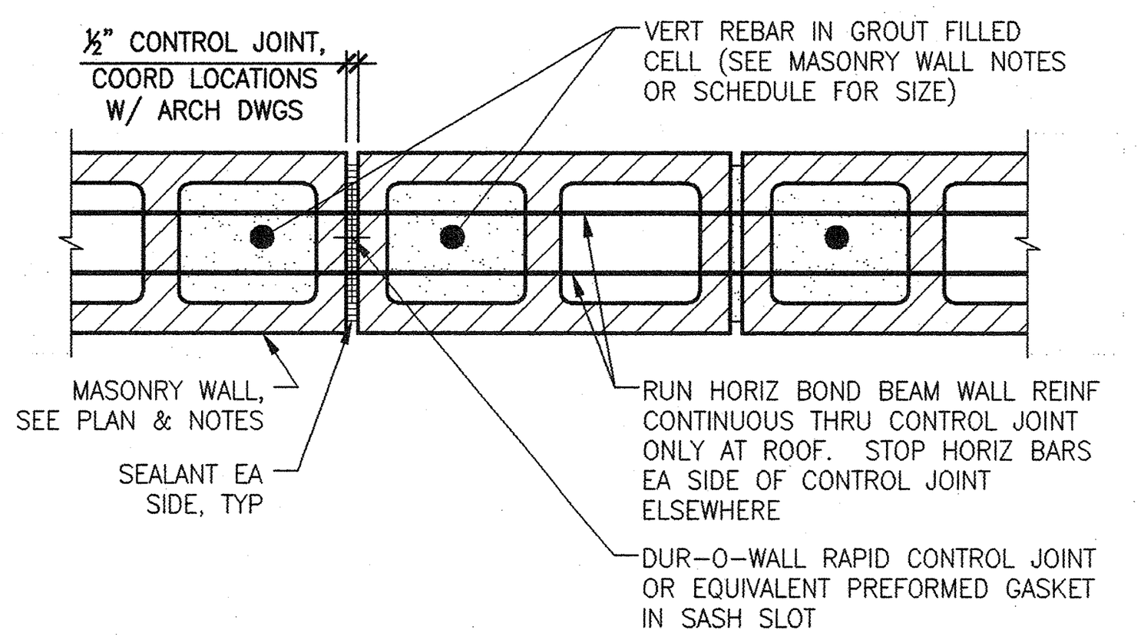
MASONRY REBAR SPLICE NOTES:

1. MECH = MECHANICAL SPLICE REQUIRED.
2. USE #6 BAR IN 10" OR LARGER WALLS ONLY.
3. f'm = 1500 PSI, fy = 60,000 PSI
4. DOUBLE MAT REINFORCEMENT SHALL HAVE 2" CLEARANCE BETWEEN FACE OF WALL AND EDGE OF VERTICAL BAR.



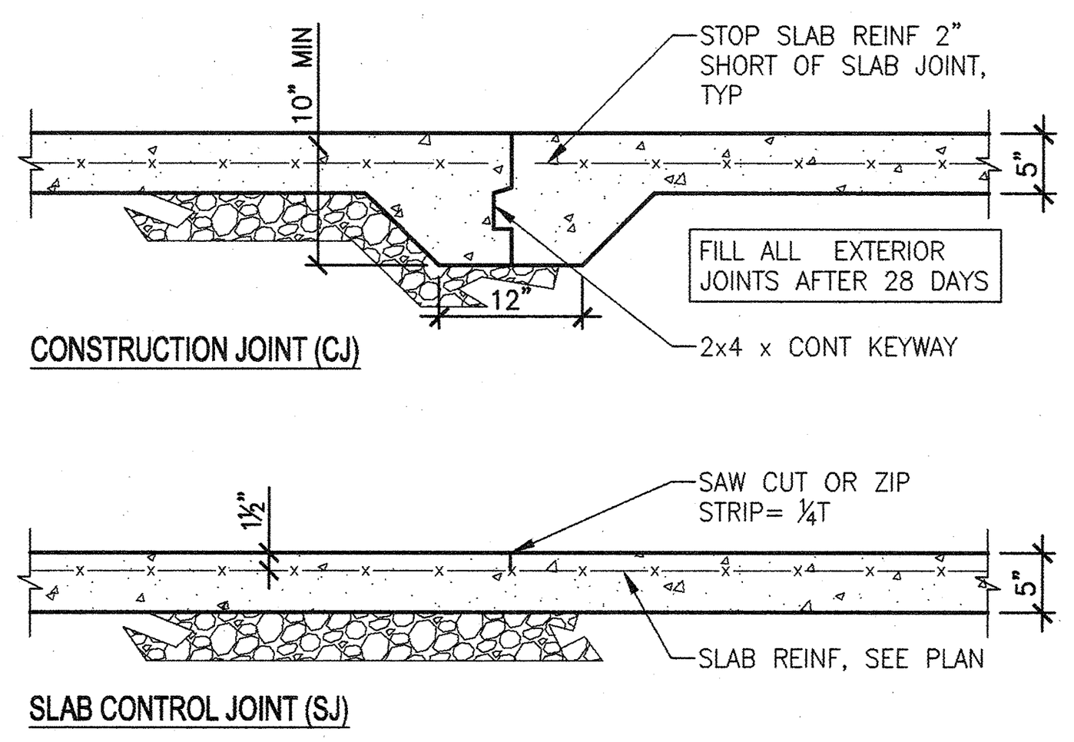
REBAR DEVELOPMENT DETAIL

C5
SCALE: NONE

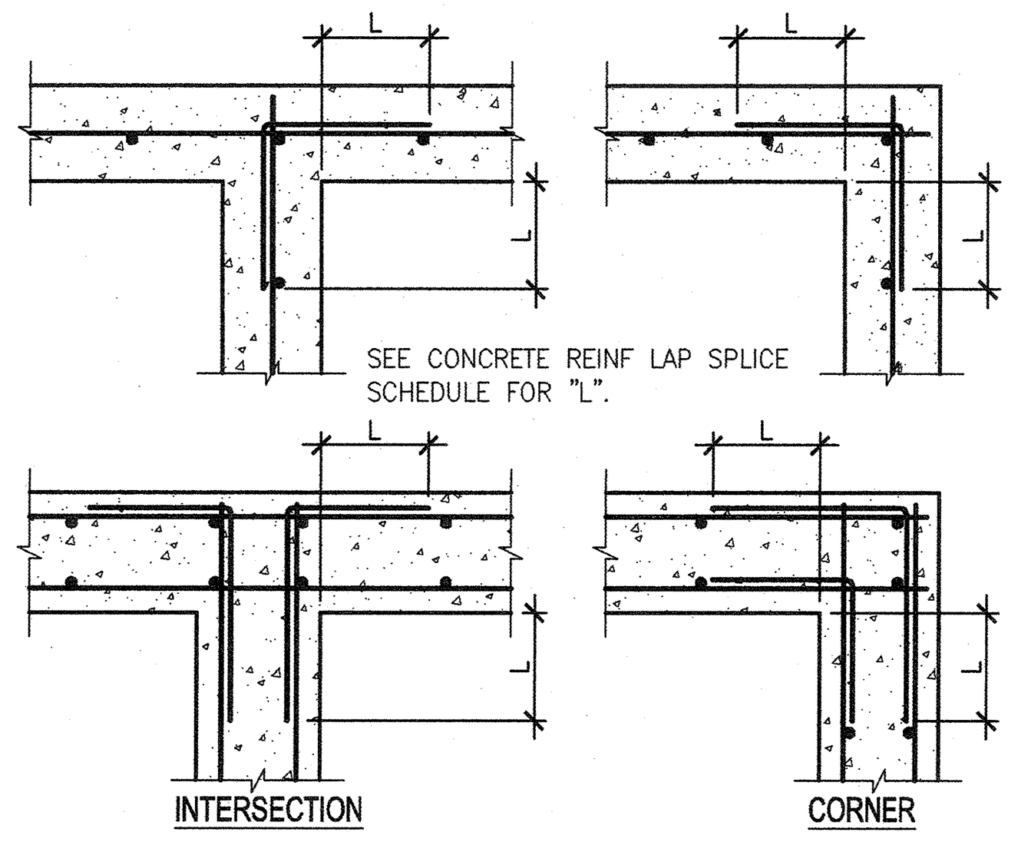


NOTE: WHERE CONTROL JOINT OCCURS AT EDGE OF OPENINGS, ALL WALL BEAM REINF AND GROUT MUST BE CONTINUOUS THROUGH JOINT. USE OPEN END UNITS OR BREAK OUT TOP HALF OF SHELL FOR GROUT FLOW AT JOINT OF BEAM. DELETE PREFORMED GASKET FOR HEIGHT OF BEAM.

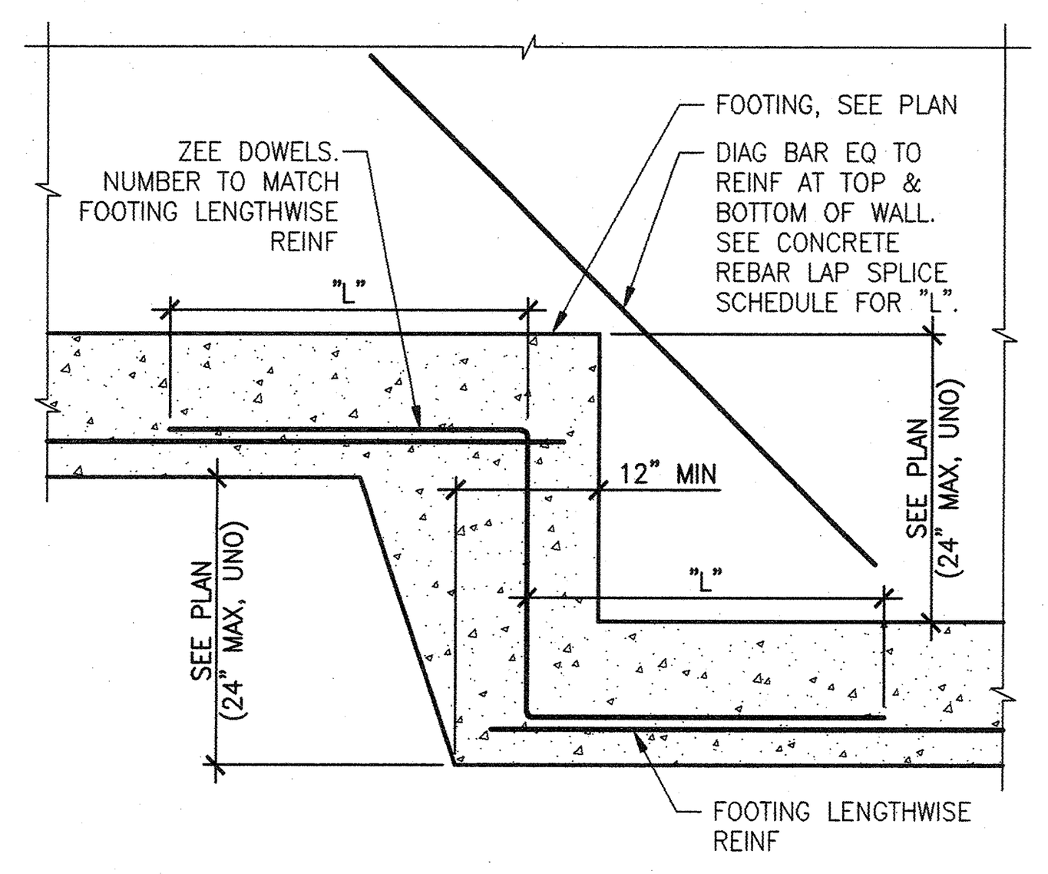
B1 TYP MASONRY CONTROL JOINT
5257_01 SCALE: NONE



B2 TYPICAL SLAB JOINT DETAILS
3600.02 SCALE: NONE

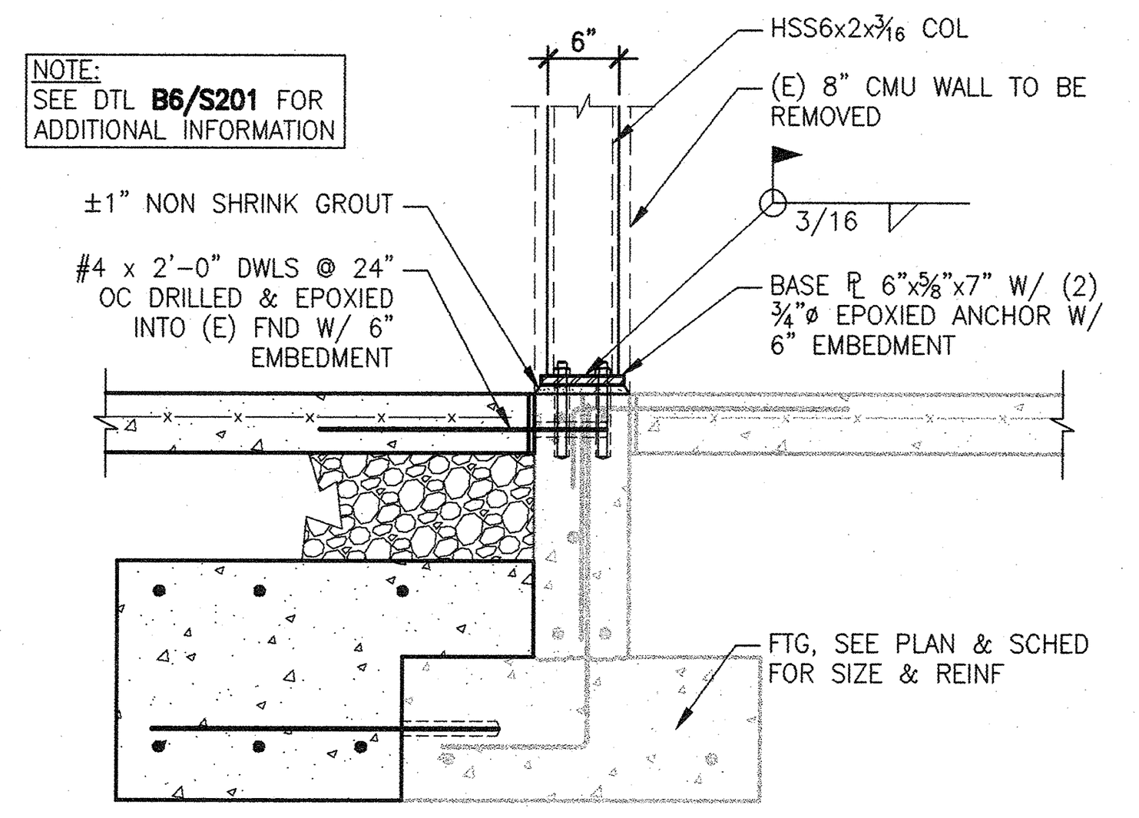


B3 WALL INTERSECTION DOWELS
3200.02 SCALE: NONE

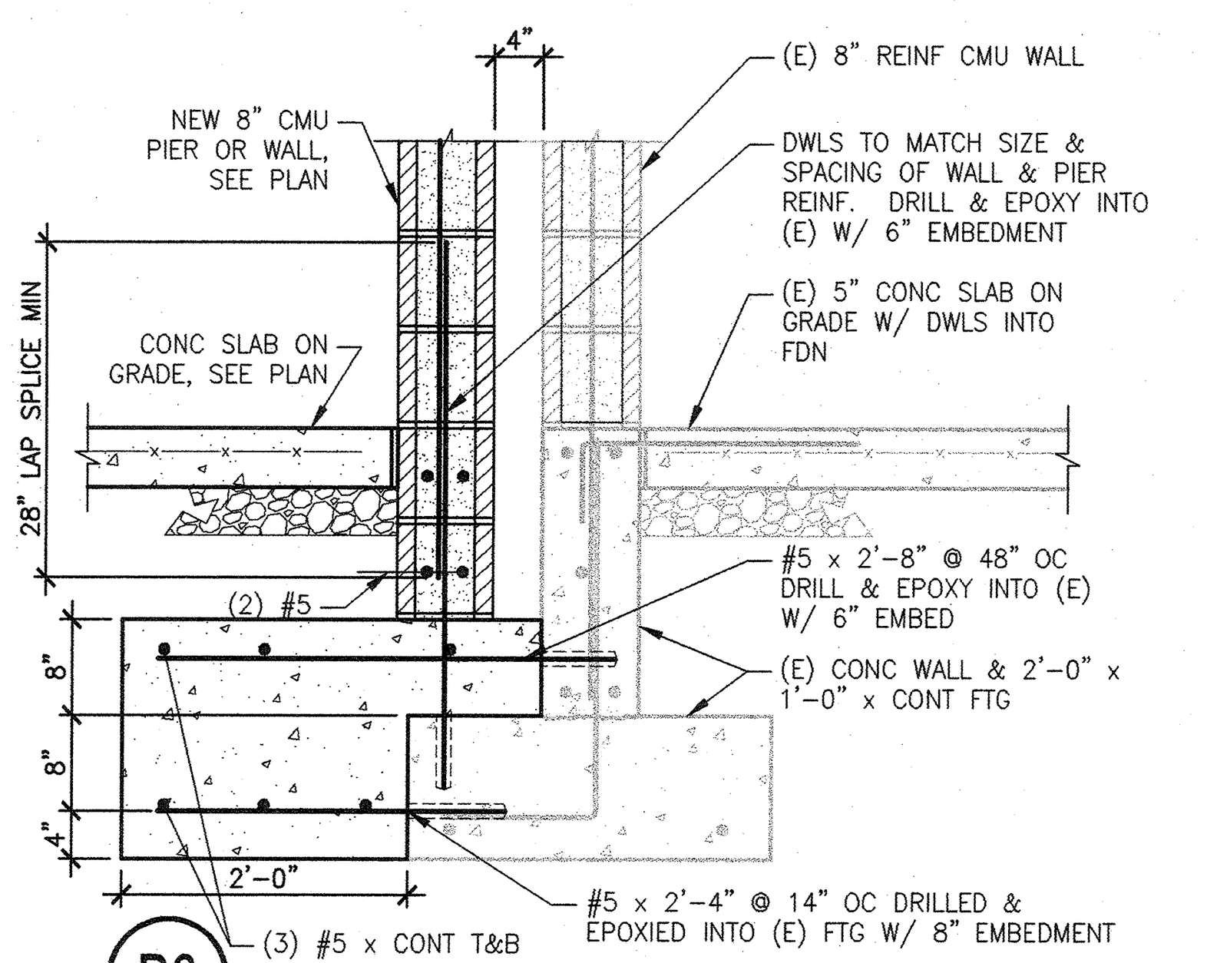


B4 FOOTING STEP (CONC FDTN)
3231.02 SCALE: NONE

NOTE:
SEE DTL **B6/S201** FOR ADDITIONAL INFORMATION



B5 DETAIL
SCALE: 3/4" = 1'-0"



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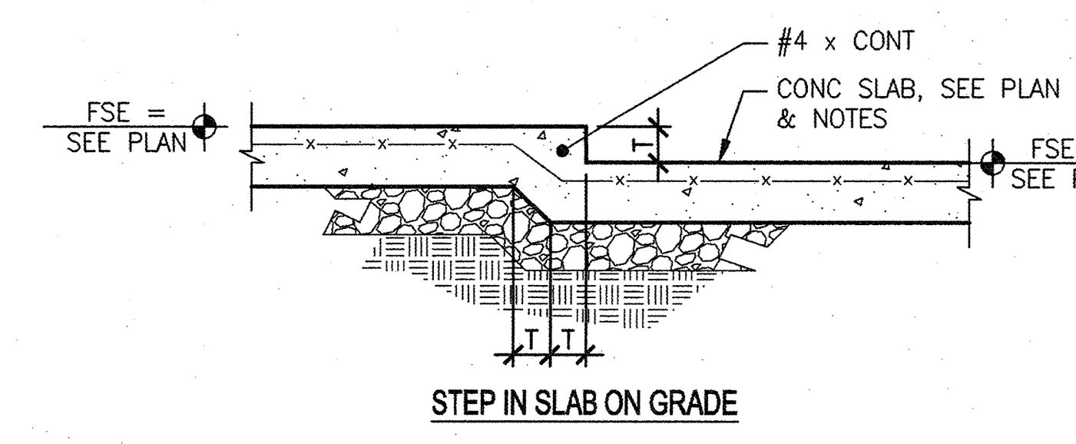
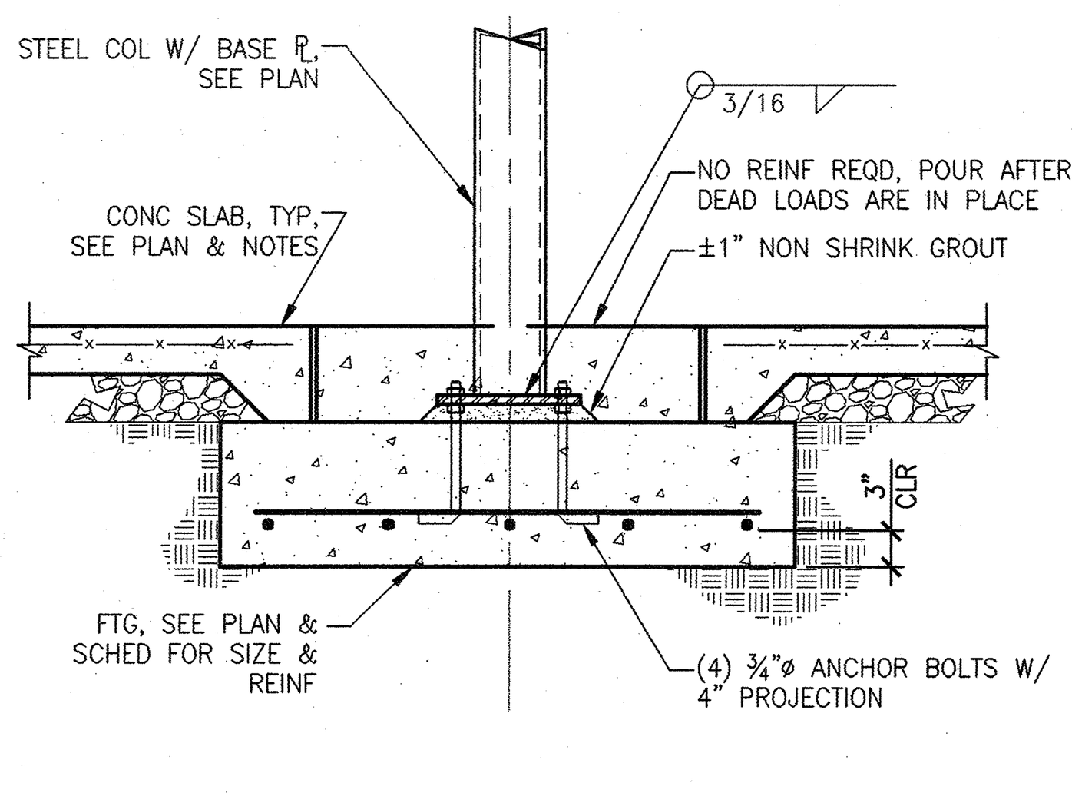
SCALE: 3/4" = 1'-0"



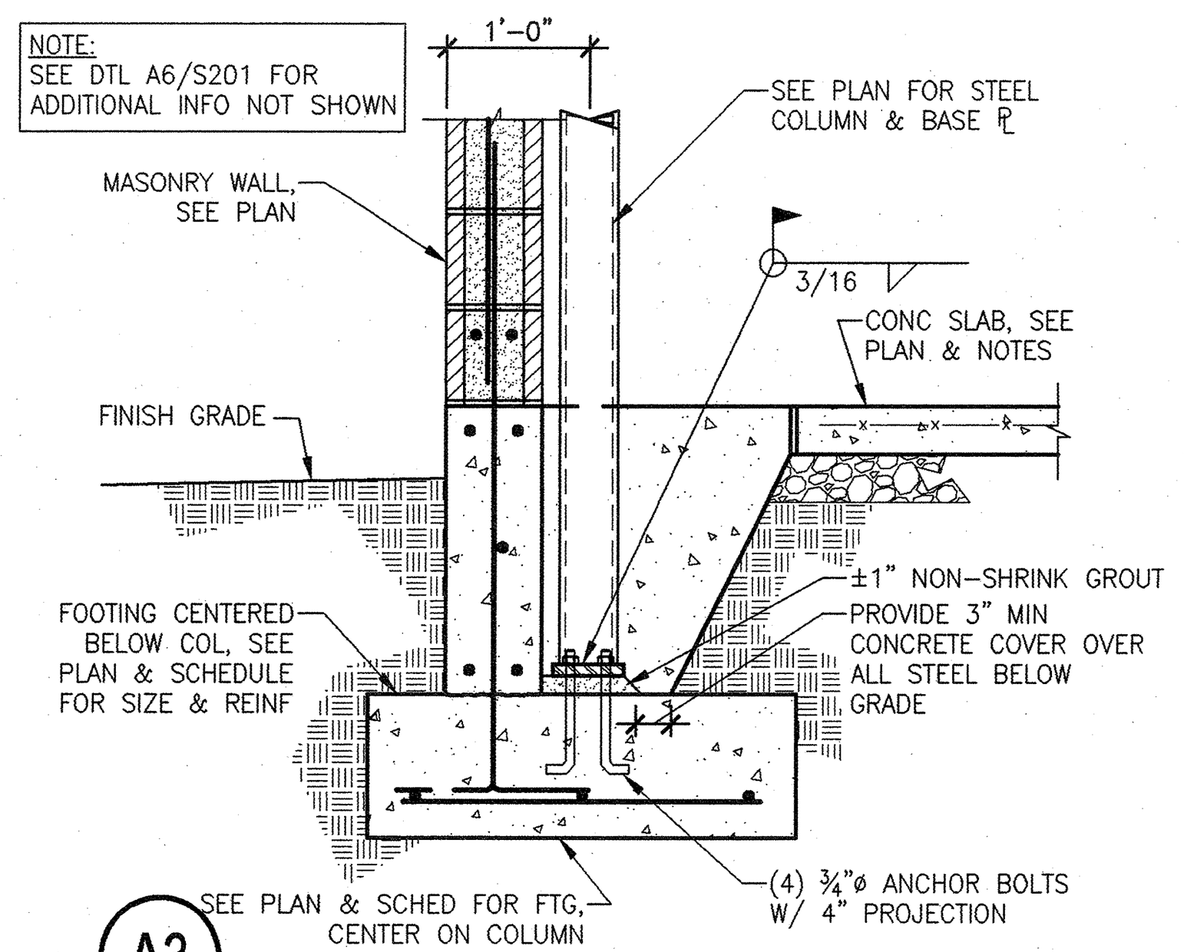
STEP IN SLAB ON GRADE

A1 SLAB STEP DETAIL
3677_05 C-SLBSTP SCALE: 3/4" = 1'-0"

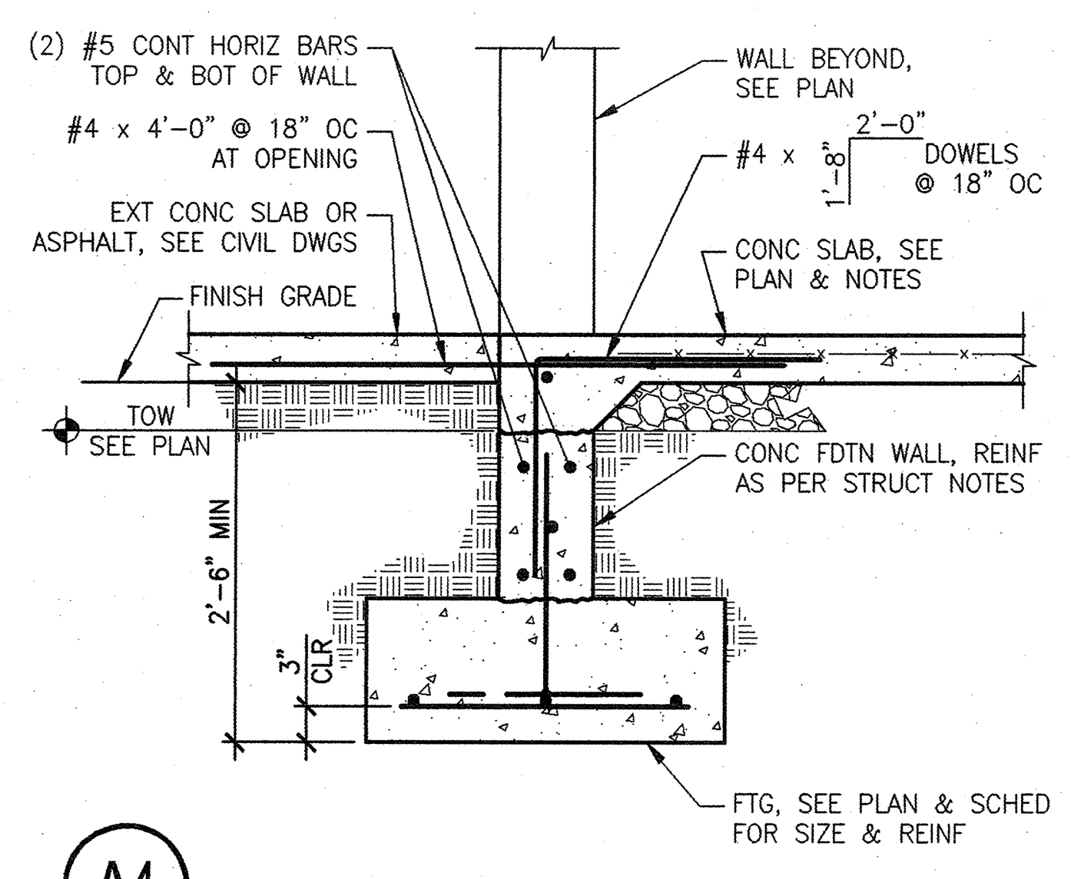


A2
4331.01 SCALE: 3/4" = 1'-0"

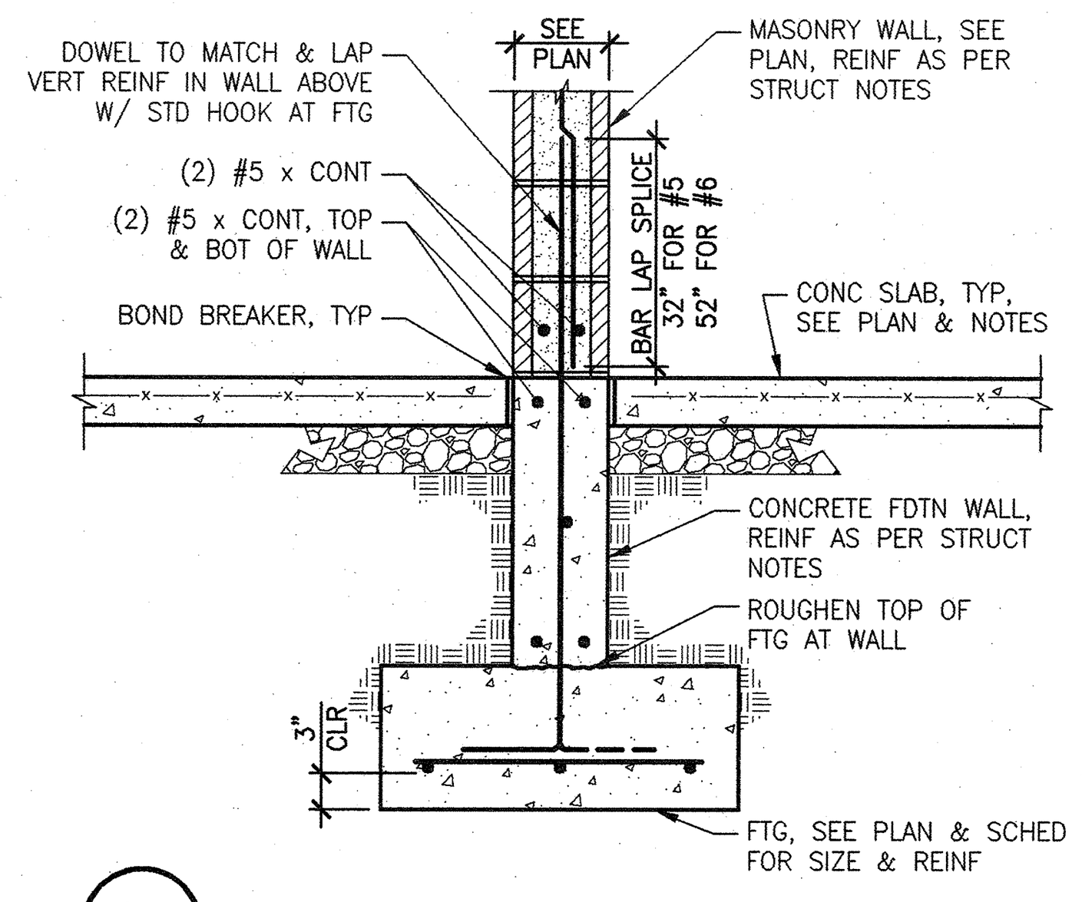
NOTE:
SEE DTL A6/S201 FOR ADDITIONAL INFO NOT SHOWN



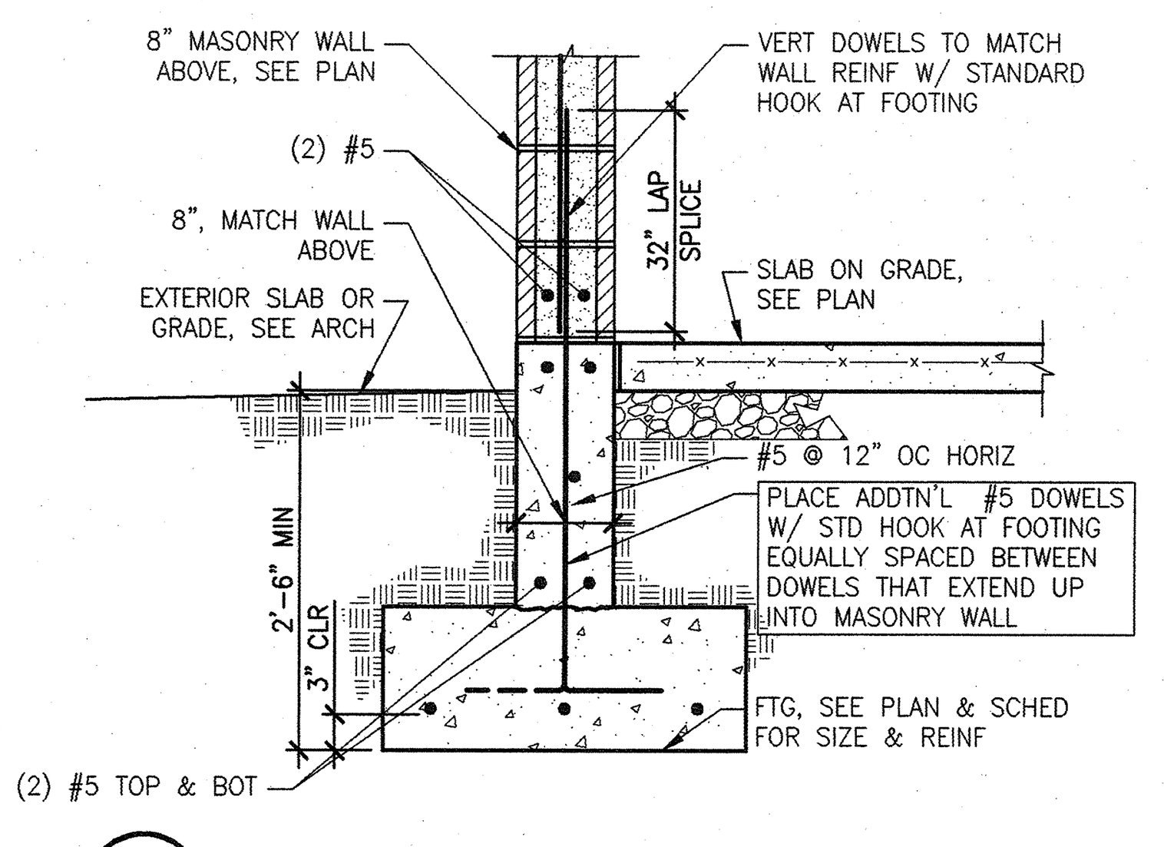
A3
3143_03 SCALE: 3/4" = 1'-0"



A4
3632.02 SCALE: 3/4" = 1'-0"



A5
3152_01 SCALE: 3/4" = 1'-0"



A6
SCALE: 3/4" = 1'-0"

CALDER RICHARDS
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TAYLORSVILLE LIQUOR STORE REMODEL & ADDITION
DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

STRUCTURAL DETAILS

FRANK N MURDOCK JR Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

LICENSED PROFESSIONAL ENGINEER No. 191304 SHAUN A. PACKER STATE OF UTAH 3-18-08

REVISION # DATE:

PERMIT DRAWINGS
FILE NAME: S201
PLOT SCALE: 3/4"=1'-0"
DRAWN BY: JRS
CHECKED BY: SP
DATE: 03/18/08

S201

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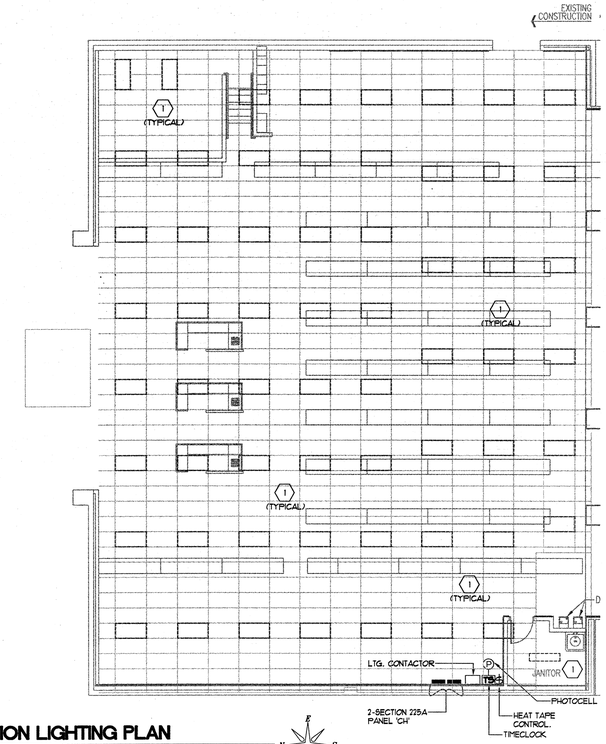
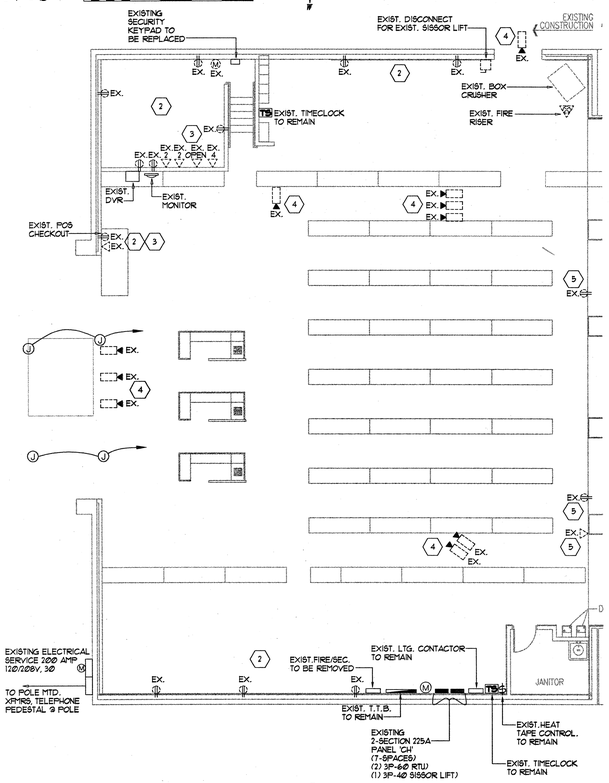


DEMOLITION LIGHTING PLAN

SCALE: 1/8" = 1' - 0"



DEMOLITION POWER PLAN

SCALE: 1/8" = 1' - 0"

KEYED NOTES

1. REMOVE ALL EXISTING LIGHT FIXTURES AND RELATED CONDUIT & WIRE.
2. EXISTING RECEPTACLE TO REMAIN, PROTECT DURING CONSTRUCTION.
3. EXISTING VOICE & DATA OUTLET TO REMAIN. PROTECT DURING CONSTRUCTION.
4. REMOVE EXISTING CCTV, CAMERAS, DVR & MONITORS & RETURN TO THE OWNER.
5. REMOVE & ABANDON EXISTING OUTLET. MAINTAIN POWER TO REMAINING DEVICES.

TAYLORSVILLE LIQUOR STORE EXPANSION AND REMODEL

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ELECTRICAL DEMOLITION PLANS

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REGISTERED PROFESSIONAL ENGINEER
No. 154867
BENN P. LEVORSEN
STATE OF UTAH
2-11-08

REVISION #	DATE:

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CONST. DOC.
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E 101

PIPING LEGEND

Item	Symbol
GATE VALVE	—
OS & Y PATTERN GATE VALVE	—
BALL VALVE	—
BUTTERFLY VALVE	—
MOTORIZED BUTTERFLY VALVE	M
HEAT TRACING	—
DEIONIZED WATER	DI
CHECK VALVE	—
SOLENOID VALVE	—
AUTOMATIC CONTROL VALVE (2-WAY)	—
AUTOMATIC CONTROL VALVE (3-WAY)	—
PRESSURE REDUCING VALVE	—
P & T RELIEF VALVE	—
AIR VENT (AUTOMATIC)	—
REFRIGERANT LIQUID	RL
REFRIGERANT SUCTION	RS
THERMAL EXPANSION VALVE	—
STRAINER	—
CIRCUIT SETTER	—
FLOW METER	—
PET COCK OR GAUGE COCK	—
PRESSURE GAUGE W/GAUGE COCK	—
THERMOMETER	—
TEMPERATURE & PRESSURE TEST PLUG	—
IN-LINE PUMP	—
FLOW SWITCH	F
AQUASTAT	A
HOSE BIBB OR SILLCOCK	—
VACUUM	V
FLOOR DRAIN	—
FLOOR SINK	—
HOT GAS BYPASS	HGBP
WALL CLEANOUT OR CLEANOUT	—
FLOOR OR GRADE CLEANOUT	—
GRADE CLEANOUT W/ CONCRETE PAD	—
CHILLED WATER SUPPLY	CHS
CHILLED WATER RETURN	CHR
CONDENSER WATER SUPPLY	CWS
CONDENSER WATER RETURN	CWR
HEATING WATER SUPPLY	HWS
HEATING WATER RETURN	HWR
WATER TREATMENT	WT
FIRE DEPT. HORN & LIGHT	—
HOT GAS	HG
FLEXIBLE PIPE CONNECTION	—
REDUCED PRESSURE BACKFLOW PREVENTER	RPBP
DIRECTION OF FLOW	—
ELBOW DOWN (DN)	—
ELBOW UP	—
PIPE CAP	—
TEE DOWN	—
UNION	—
DOMESTIC COLD WATER	—
DOMESTIC HOT WATER	—
HOT WATER CIRC.	—
TEMPERED WATER	T
SANITARY (PLBG) VENT	—
SANITARY SEWER ABOVE GRADE	—
SANITARY SEWER BELOW GRADE	—
DRAIN	D
ROOF DRAIN PIPING	RD
OVERFLOW DRAIN PIPING	OD
STORM DRAIN PIPING ABOVE GRADE	SD
STORM DRAIN PIPING BELOW GRADE	SD
FIRE SERVICE	F
NATURAL GAS	G
COMPRESSED AIR	CA
VENT THROUGH ROOF	—
STEAM	S
CONDENSATE	C

MECHANICAL LEGEND

Item	Symbol
RETURN OR EXHAUST DUCT DOWN	—
RETURN OR EXHAUST DUCT UP	—
SUPPLY AIR DUCT DOWN	—
SUPPLY AIR DUCT UP	—
SPIN-IN FITTING W/MVD	—
FLEXIBLE DUCT	—
CEILING SLOT DIFFUSER	—
CEILING DIFFUSER	—
CEILING EXHAUST GRILLE	—
CEILING GRILLE	—
ACCESS PANEL	—
MANUAL VOLUME DAMPER	—
MOTORIZED DAMPER	M
FIRE DAMPER	F
COMBINATION FIRE/SMOKE DAMPER	FS
THERMOSTAT OR TEMP SENSOR	T
POINT OF CONNECTION TO EXISTING	—
DETAIL TAG	DETAIL NO. / DRAWING NO.
KEYED NOTE	NOTE NO.
SECTION CUT LINE	SECTION NO. / DRAWING NO.
CONTROL TRANSFORMER	TRX
LOW PRESSURE DUCT W/ TURNING VANES	—
BALANCER TO TURN ALL SLOTS IN DIFFUSER FACING DIRECTION NOTED	—

GENERAL NOTES

1. INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL.
2. (E) INDICATES EXISTING. (N) INDICATES NEW MATERIAL.
3. COORDINATE ALL FIRE SPRINKLER, DIFFUSER AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS.
4. THIS CONTRACTOR SHALL NOT SHUT-OFF/ PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING ALL DOWNTIME WITH THE OWNER'S PERSONAL.
5. ALL RIGID ROUND DUCTWORK SHALL RECEIVE 1-1/2" - 2.0 LBS/CU.FT. FIBERGLASS DUCT WRAP. ALL RECTANGULAR DUCT SHALL RECEIVE 1" - 1.5 LBS/CU.FT. DUCT LINER, TRIM AND SEAL JOINTS W/ MYLAR LINING. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1-1/2" THICK INSULATED AND A MAXIMUM OF 10 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. MEDIUM PRESSURE FLEXIBLE DUCT TO BE INSULATED, RATED FOR 6" W.C. AND SHALL BE STRECHED OUT TO PREVENT ANY KINKS OR OFFSETS (3 FT. MAX. LENGTH).
6. DUCTWORK AND PIPE ROUTING IS APPROXIMATE, DIAGRAMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF ALL WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
7. THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH ALL NEW AND EXISTING MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL MEMBERS.
8. THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO COMMENCING NEW WORK. NO ADDITIONAL COST WILL BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING MECHANICAL CONDITIONS.
9. THIS CONTRACTOR SHALL USE SMACNA STANDARDS FOR HIGH PRESSURE DUCT CONSTRUCTION OF SUPPLY DUCTWORK UPSTREAM OF VAV BOX - SEAL CLASS "A". ALL OTHER DUCTWORK SHALL BE CONSTRUCTED ACCORDING TO SMACNA STANDARDS FOR LOW PRESSURE DUCT CONSTRUCTION - SEAL CLASS "B".
10. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL CURRENT LOCAL CODES.
11. THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION OF THESE SAME ITEMS.
12. ALL VAV BOXES AND DIFFUSERS MUST BE BALANCED PER PLAN. PROVIDE BALANCE REPORT TO ENGINEER.
13. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
14. CONTRACTORS ARE TO READ ALL KEYED NOTES ON ALL SHEETS BEFORE SUBMITTING BIDS

PLUMBING FIXTURE CONNECTION SCHEDULE

	DESCRIPTION	CONNECTION SIZE: COLD WATER	HOT WATER	WASTE	VENT	SPECIFICATIONS
WC-1	WATER CLOSET (HANDICAP)	¾"	N/A	3"	2½"	KOHLER K-3544-RA, SEAT: OLSONITE 95 COMFORT CURVE, COLOR: WHITE. PROVIDE SUPPLIES AND STOP. SET RIM AT 17½" AFF.
WC-2	WATER CLOSET (HANDICAP)	¾"	N/A	3"	2½"	KOHLER K-3544, SEAT: OLSONITE 95 COMFORT CURVE, COLOR: WHITE. PROVIDE SUPPLIES AND STOP. SET RIM AT 17½" AFF.
L-1	LAVATORY	½"	½"	1½"	1¼"	KOHLER: GREENWICH WALL MOUNT K-2031-N W/ ACCESSORY MODEL #102G FOR HANDICAP INSTALLATION & K-8998 TRAP FAUCET: SYMMONS ULTRA SENSE S-6080-G W/ GRID DRAIN POWER HYDROGUARD SERIES 480 TEMPERING VALVE.
HB-1	HOSE BIBB	¾"	N/A	N/A	N/A	WOODFORD: MODEL 74P-¾
FD-1	FLOOR DRAIN	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 2005 W/ A05NB NICKEL/BRONZE STRAINER AND TRAP PRIMER
FS-1	FLOOR SINK	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 3140-12-Y W/ NICKEL/BRONZE TOP/ ½ GRATE AND TRAP PRIMER
SC-1	SILLCOCK	¾	N/A	N/A	N/A	J. R. SMITH 5509QT (w/ INTEGRAL VACUUM BREAKER AND STAINLESS STEEL BOX)
WCO-1	WALL CLEAN OUT	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 4530
FCO-1	FLOOR CLEAN OUT	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 4023
RD-1	ROOF DRAIN	N/A	N/A	N/A	N/A	J.R. SMITH 1010Y - C - R - CI DOME PROVIDE CAST IRON DOME.
OD-1	OVERFLOW DRAIN	N/A	N/A	N/A	N/A	J.R. SMITH 1080Y - C - R - CI DOME PROVIDE CAST IRON DOME.
DSN-1	DOWNSPOUT NOZZLE	N/A	N/A	N/A	N/A	J.R. SMITH 1770
WHA	WATER HAMMER ARRESTORS	AS REQUIRED	AS REQUIRED	N/A	N/A	J. R. SMITH 5020
SS-1	SERVICE SINK	¾"	¾"	3"	1½"	KOHLER: K-6710 w/ K-9142 STRAINER FAUCET: CHICAGO FAUCET MODEL # 897-RCF
S-1	SINK (SS 2 COMPARTMENT)	½"	½"	2"	1¼"	JUST: SL-2019-A-GR WITH J35 STRAINER FAUCET: CHICAGO FAUCET MODEL # 786-SWE29CP PROVIDE W/ GARBAGE DISPOSAL UNIT GDU-1: ISE MODEL PRO 77, 1 hp, 115 V, 1Φ, 9.0 amps
EWC-1	ELECTRIC WATER COOLER	½"	N/A	1½"	1¼"	SUNROC: NWCA-8-BL (BI LEVEL FOUNTAIN) 7.8 gph, 4.5 FLA, 415 Watts, 120v - 1Φ, R-134A

PUMP SCHEDULE P-

PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM	MOTOR H.P.	MOTOR VOLTAGE & PHASE	MANUFACTURER & MODEL NO.	COMMENTS
P-1	CIRCULATOR	8	26	3250	1/8	120 / 1	TACO 0013	BRONZE FITTED

GAS FIRED UNIT HEATER SCHEDULE UH-

PLAN CODE	HEATING MBH OUTPUT REQ'D. ELEVATION	MANUFACTURER & MODEL NO.	SPECIFIED UNIT CAP. INPUT (S.L.) (MBH)	OUTPUT (S.L.) (MBH)	CFM (STD.)	THROW AT 12' MOUNTING (FT.)	ELECTRICAL VOLT/ PHASE	FAN H.P.	FLUE SIZE / TYPE	SIZE LENGTH	WIDTH	HEIGHT	WEIGHT	REMARKS
UH-1	80	MODINE PD 100	100	80	1,460	41	120 / 1	1/12	6"Φ / "B"	30"	18"	29"	110 lbs.	W/T-STAT, PIPE HANGER KIT AND FACTORY 4 OZ. GAS TRAIN.

AIR DEVICE SCHEDULE

GRILLE NUMBER / GRILLE CFM

PLAN CODE	TYPE & DUTY	NECK SIZE	CEILING TYPE	N.C. LEVEL MAX	MAX. CFM	MANUFACTURER & MODEL NO.	REMARKS
1	SUPPLY	8"Φ	See Plans	20	280	PRICE 8"Φ / 24" x 24" / SCDA / 3 / B12	
2	RETURN	22" x 22"	See Plans	10	1340	PRICE 22" x 22" / 24" x 24" / PDDR / 3 / B12	PROVIDE W/ DUCT COLLAR
3	EXHAUST	6"Φ	See Plans	15	170	PRICE 6"Φ / 12" x 12" / PDDR / 2 / B12	PROVIDE OBD

EXHAUST FAN SCHEDULE EF-

PLAN CODE	AREA SERVED	TYPE	CFM @ ELEV.	ESP	FAN RPM	MOTOR WATTS	H.P.	VOLTAGE & PHASE	SONES	DAMPER TYPE	METHOD OF CONTROL	OPENING SIZE	OPERATING WT. (LBS.)	MANUFACTURER / MODEL	ACCESSORIES
EF-1	SEE PLANS	ROOF CENTRUGAL	471	0.375"	1015	NA	1/6	120 / 1	5.1	BACK DRAFT	TIME CLOCK	12" x 12"	65	PENN BARRY DOMEX DX08B	PROVIDE FACTORY 14" CURB

ROOF TOP UNIT SCHEDULE RTU-

PLAN CODE	UNIT TONAGE	TOTAL CFM	EXTERNAL STATIC PRESSURE	DESIGN CRITERIA OUTSIDE AIR TEMP.	RETURN AIR DB	RETURN AIR WB	LEAVING AIR TEMP	EER	SENSIBLE COOLING CAPACITY (MBH)	HEATING CAPACITY INPUT (MBH)	OUPUT (MBH)	ELECTRICAL VOLTS PHASE	MCA	MOP	DIMENSIONS (in.) Length	Width	Height	OPER. WEIGHT (lbs)	MANUFACTURER & MODEL NO	REMARKS
RTU-1 & RTU-2	7.5	3,000	0.6	95	80	62	53.2/51.8	10.2	70.14	164.0	132.84	208 / 3	42.7	60	89	54	55	1,150	TRANE YSC090A3EHA	SEE GENERAL NOTES

GENERAL NOTES:

① VALUES ARE RATED AT 4,500 Ft. ELEVATION.
② PROVIDE MINIMUM OUTSIDE AIR SET POINTS.
③ PROVIDE 14" FACTORY CURB.
④ PROVIDE ECONOMIZER. AND POWER EXHAUST.
⑤ PROVIDE FACTORY 4 OZ. GAS TRAIN.
⑥ PROVIDE COMPRESSOR CRANKCASE HEATER.
⑦ ALL ROOFTOP UNITS MUST MEED OR EXCEED CURRENT ASHRAE ENERGY CODE 90.1 STANDARDS.
⑧ PROVIDE FACTORY HACR CIRCUIT BREAKER.
⑨ PROVIDE 7 DAY PROGRAMMABLE T-STAT WITH 100 Ft. OF PLEMUN RATED T-STAT WIRE.
⑩ PROVIDE FACTORY MOUNTED CONV. OUTLET TO BE FIELD WIRED.
⑪ PROVIDE SMOKE DETECTOR IN SUPPLY & RETURN AIR DUCTWORK.
⑫ PROVIDE COIL GUARDS.

ELECTRIC WATER HEATER SCHEDULE WH-

PLAN CODE	INPUT (KW)	RECOVERY RATE (GAL/HR)	TEMP RISE (°F)	DIMENSIONS	ELECTRICAL VOLT & PHASE	AMPS	MANUFACTURER & MODEL NO.	REMARKS
WH-1	2,500	13	80	26" x 18" x 21"	208 / 1	10.4	A.O. SMITH DEL-15	WITH AMTROL ST-5 EXPANSION TANK

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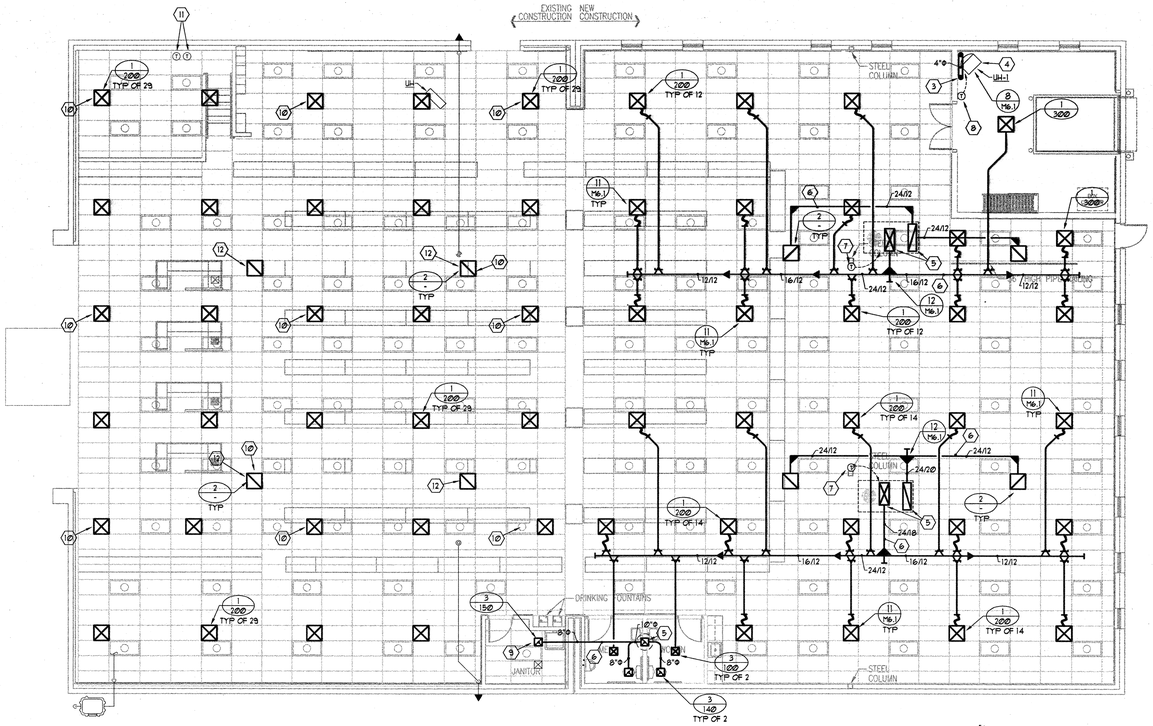
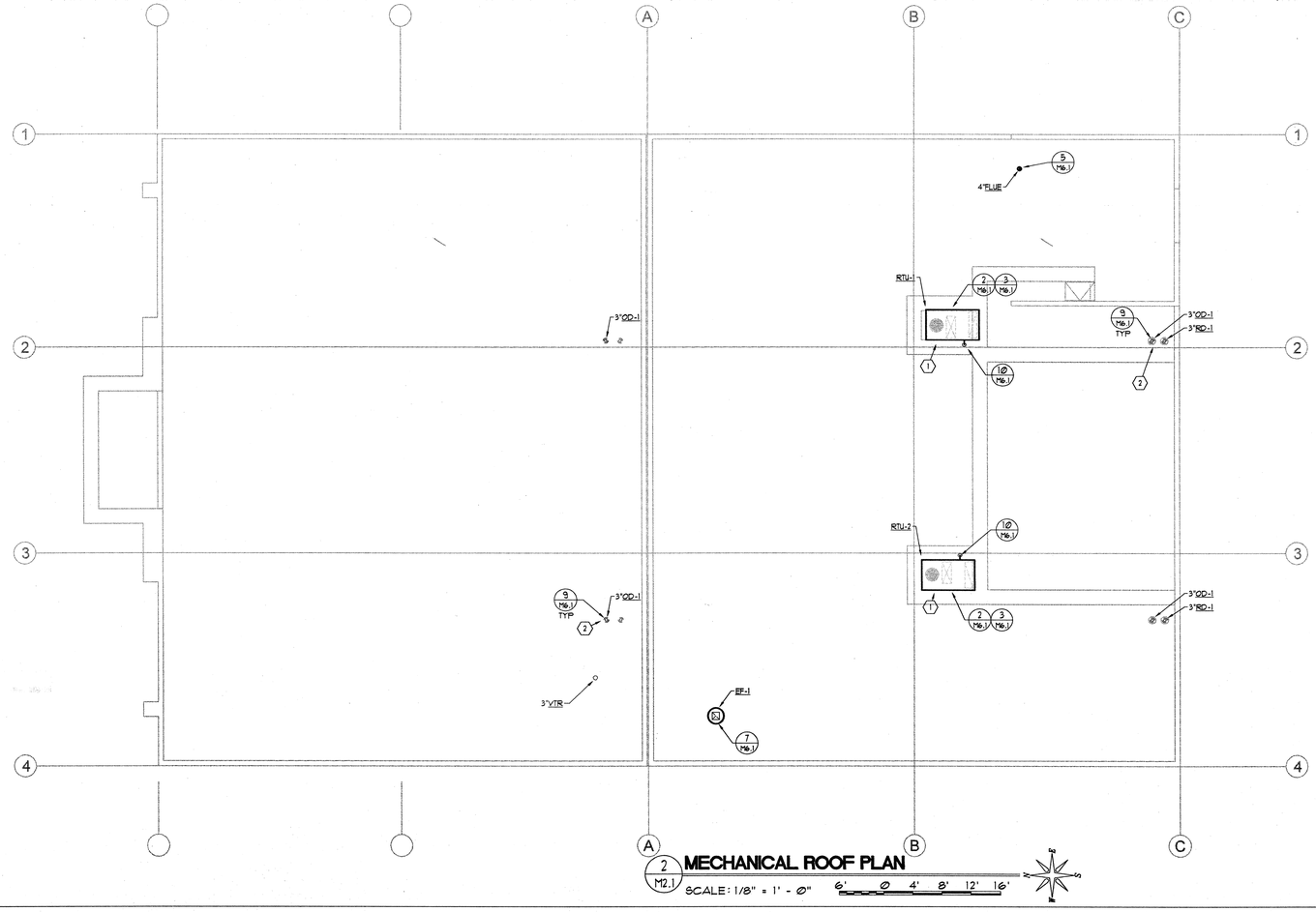


1 M2.1 **MECHANICAL FLOOR PLAN**

SCALE: 1/8" = 1' - 0"



2 M2.1 **MECHANICAL ROOF PLAN**

SCALE: 1/8" = 1' - 0"

KEYED NOTES:

1. COORDINATE EXAGT LOCATION OF RTU'S WITH STRUCTURAL PLANS.
2. NEW DRAINS AS SHOWN IN DETAIL - SEAL ALL ROOF PENETRATIONS WATER TIGHT.
3. EXTEND 4" TYPE "B" FLUE UP THROUGH ROOF AS SHOWN. TERMINATE ON ROOF WITH FLUE CAP.
4. MOUNT UNIT HEATER AS SHOWN IN DETAIL - AND AS REQUIRED PER MANUFACTURER.
5. DROP DUCTWORK SIZED FULL SIZE OF UNITS OPENINGS TO BELOW STRUCTURE. THEN ROUTE DUCTWORK AS SHOWN.
6. M.C. TO KEEP ALL DUCTWORK TIGHT TO BOTTOM OF STRUCTURE. OFFSET/TRANSITION AS REQUIRED. (TYPICAL)
7. M.C. TO PROVIDE AND INSTALL 7-DAY PROGRAMMABLE T-STAT. COORDIANTE WITH OWNER/ARCH AS TO FINAL LOCATION & ELEVATION OF STATS.
8. T-STAT FOR UNIT HEATER.
9. M.C. TO CAP DUCTWORK TO EXISTING EXHAUST DUCT AIR DOME ON ROOF.
10. ALL GRILLES IN EXISTING FRONT HALF OF STORE ARE TO BE DEMOED AND REPLACED WITH NEW GRILLES AS CALLED FOR AND REBALANCED. NEW GRILLES TO MATCH PATTERN OF GRILLES IN NEW SECTION OF STORE. M.C. TO MODIFY DUCTWORK AS REQUIRED TO MATCH NEW GRILLE PATTERN. (TYPICAL)
11. EXISTING T-STATS AND ZONE SENSORS ON SALES FLOOR ARE TO BE TESTED AND REPLACED IF REQUIRED.
12. M.C. TO FIELD VERIFY EXISTING RETURN AIR DUCTWORK AND CONNECT TO NEW GRILLES AS REQUIRED.

GENERAL NOTES:

1. ALL EXPOSED DUCTWORK OR DUCTWORK ABOVE GYP. CEILINGS SHALL BE HARD DUCTED.
2. USE YOUNG GEAR TYPE BALANCING REGULATORS ABOVE ALL GYP. BOARD CEILINGS.
3. ALL MEDIUM PRESSURE DUCTWORK SHALL BE HELD TIGHT TO BOTTOM OF STRUCTURE. OFFSET AND TRANSITION AS REQUIRED.
4. OFFSET AND TRANSITION ALL DUCTWORK AND PIPING AS REQUIRED.
5. PROVIDE ACCESS PANELS AS REQUIRED.
6. CONTRACTOR TO COORDINATE ALL INSTALLATIONS WITH OTHER TRADES.
7. CONTRACTOR TO COORDINATE ALL FINAL LOCATION OF T-STAT'S WITH OWNER AND ARCHITECT.
8. CONTRACTOR TO PROVIDE AND INSTALL SOUND BOOTS ON ALL RETURN AIR GRILLES. BOOTS TO BE PAINTED FLAT BLACK.
9. CONTRACTOR TO COORDINATE GRILLES WITH REFLECTED CEILING GRID.

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Patrick T. Caldwell — Registered Professional Engineer — 323760 — State of Utah

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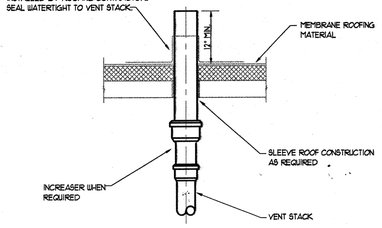
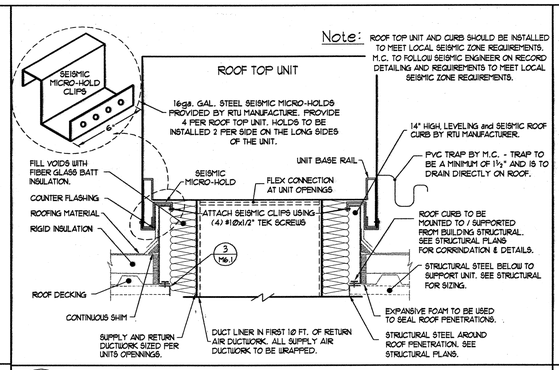
M2.1



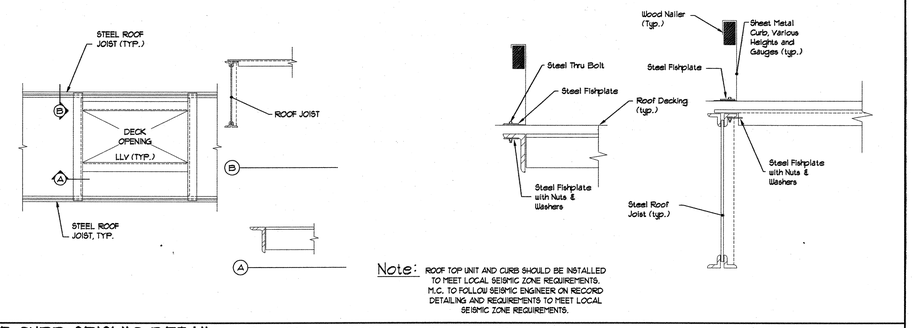
1 M6.1 **VENT THROUGH ROOF DETAIL**

NOT TO SCALE



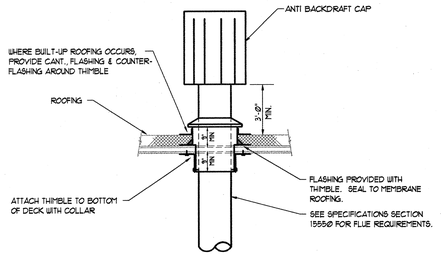
2 M6.1 **ROOF TOP UNIT CURB DETAIL**

NOT TO SCALE



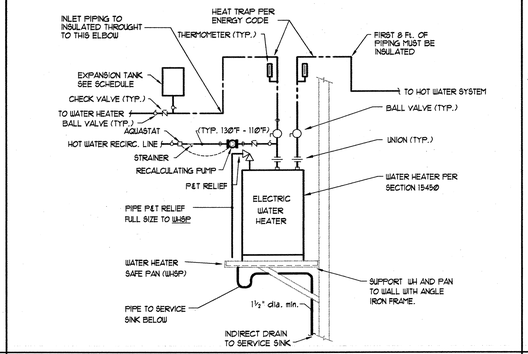
3 M6.1 **ROOF CURB SEISMIC DETAIL** (See Structural Plan for final detailing)

NOT TO SCALE



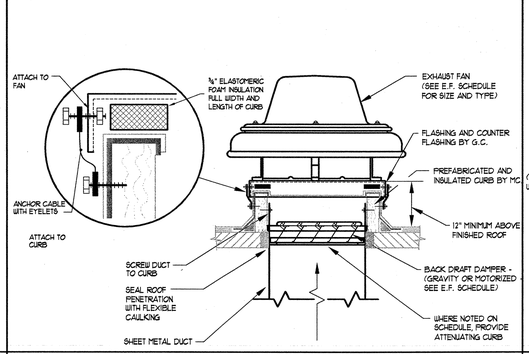
5 M6.1 **FLUE ROOF PENETRATION DETAIL**

NOT TO SCALE



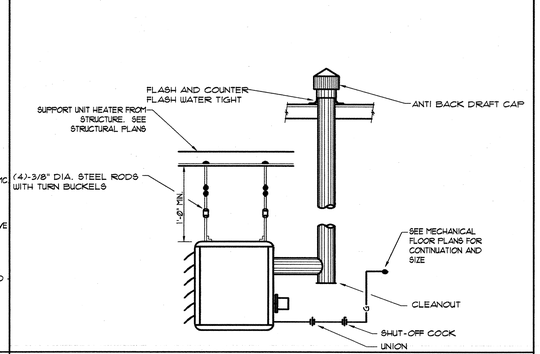
6 M6.1 **ELECTRIC WATER HEATER PIPING DETAIL (WALL HUNG)**

NOT TO SCALE



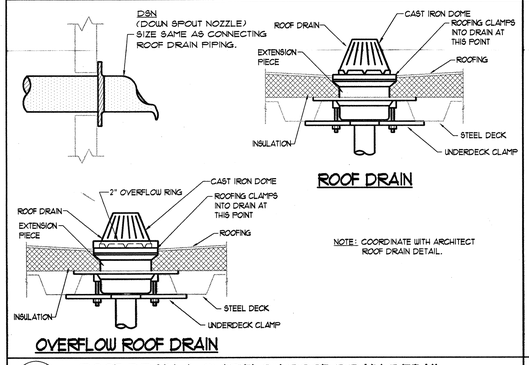
7 M6.1 **EXHAUST FAN AND CURB DETAIL**

NOT TO SCALE



8 M6.1 **GAS FIRED UNIT HEATER DETAIL**

NOT TO SCALE



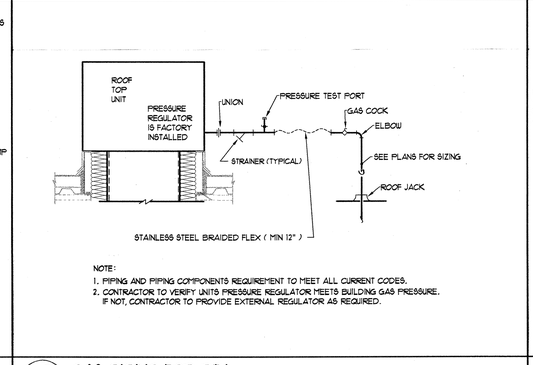
ROOF DRAIN

NOTE: COORDINATE WITH ARCHITECT ROOF DRAIN DETAIL.

OVERFLOW ROOF DRAIN

9 M6.1 **ROOF DRAIN & OVERFLOW ROOF DRAIN DETAIL**

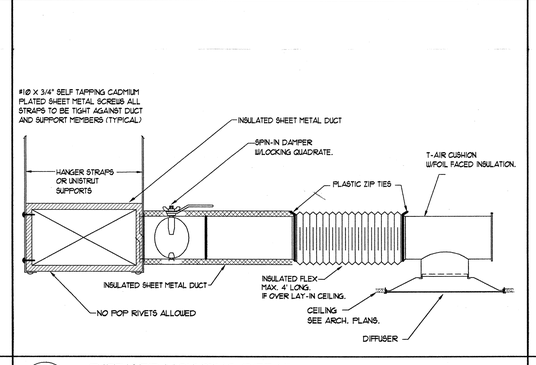
NOT TO SCALE



NOTE:
1. PIPING AND PIPING COMPONENTS REQUIREMENT TO MEET ALL CURRENT CODES.
2. CONTRACTOR TO VERIFY UNITS PRESSURE REGULATOR MEETS BUILDING GAS PRESSURE. IF NOT, CONTRACTOR TO PROVIDE EXTERNAL REGULATOR AS REQUIRED.

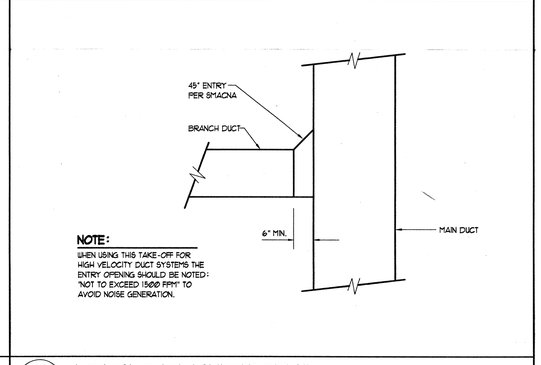
10 M6.1 **GAS PIPING FOR RTU**

NOT TO SCALE



11 M6.1 **DIFFUSER MOUNTING DETAIL**

NOT TO SCALE



NOTE:
WHEN USING THIS TAKE-OFF FOR HIGH VELOCITY DUCT SYSTEMS THE ENTRY OPENING SHOULD BE NOTED: "NOT TO EXCEED 1500 FPM" TO AVOID NOISE GENERATION.

12 M6.1 **TYPICAL DUCT TAKEOFF DETAIL**

NOT TO SCALE

TAYLORSVILLE LIQUOR STORE EXPANSION AND REMODEL

DEPT. OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

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PATRICK T. CARLSTROM — REGISTERED — 323760 — PROFESSIONAL ENGINEER — State of Utah

REVISION #	DATE:

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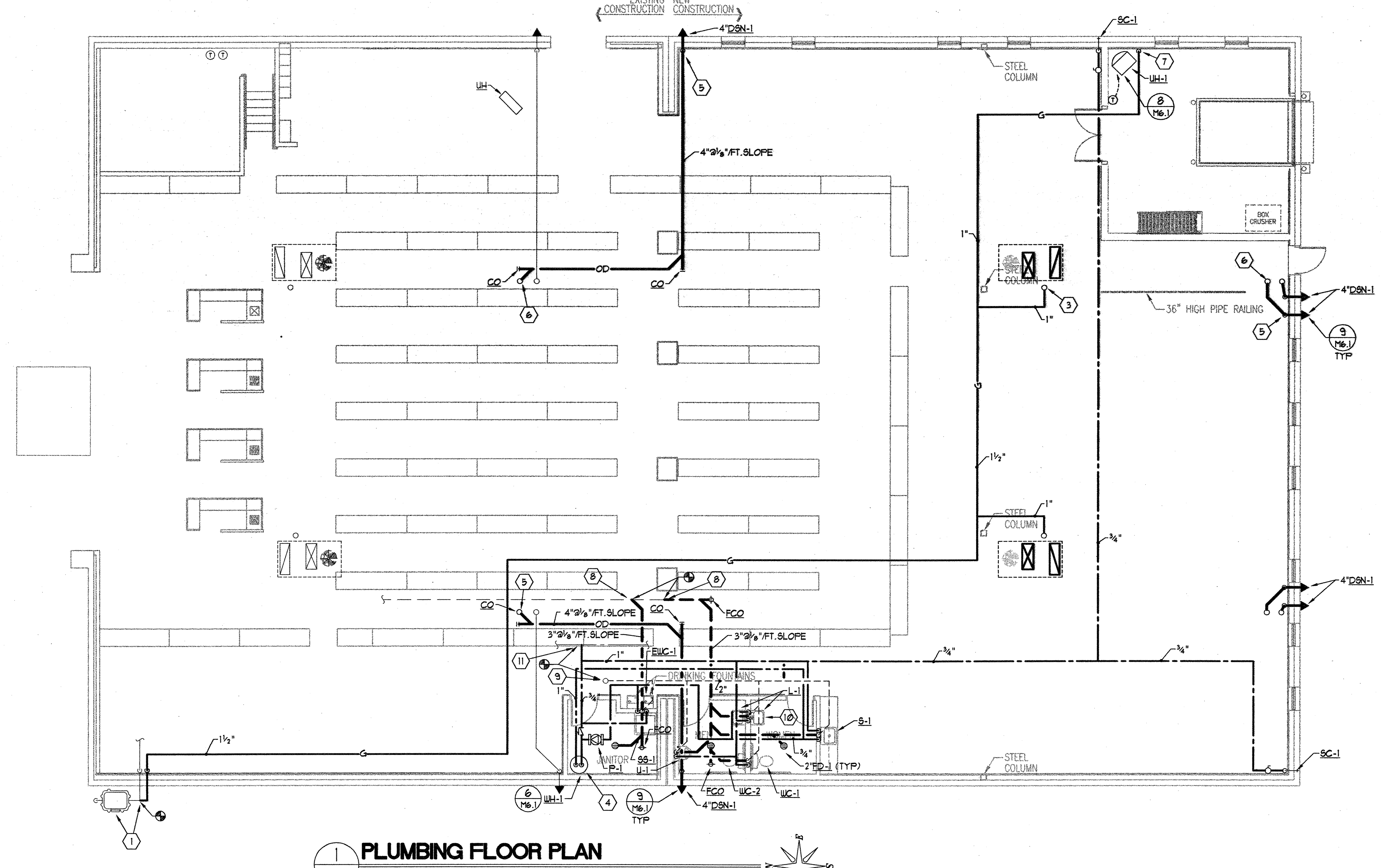
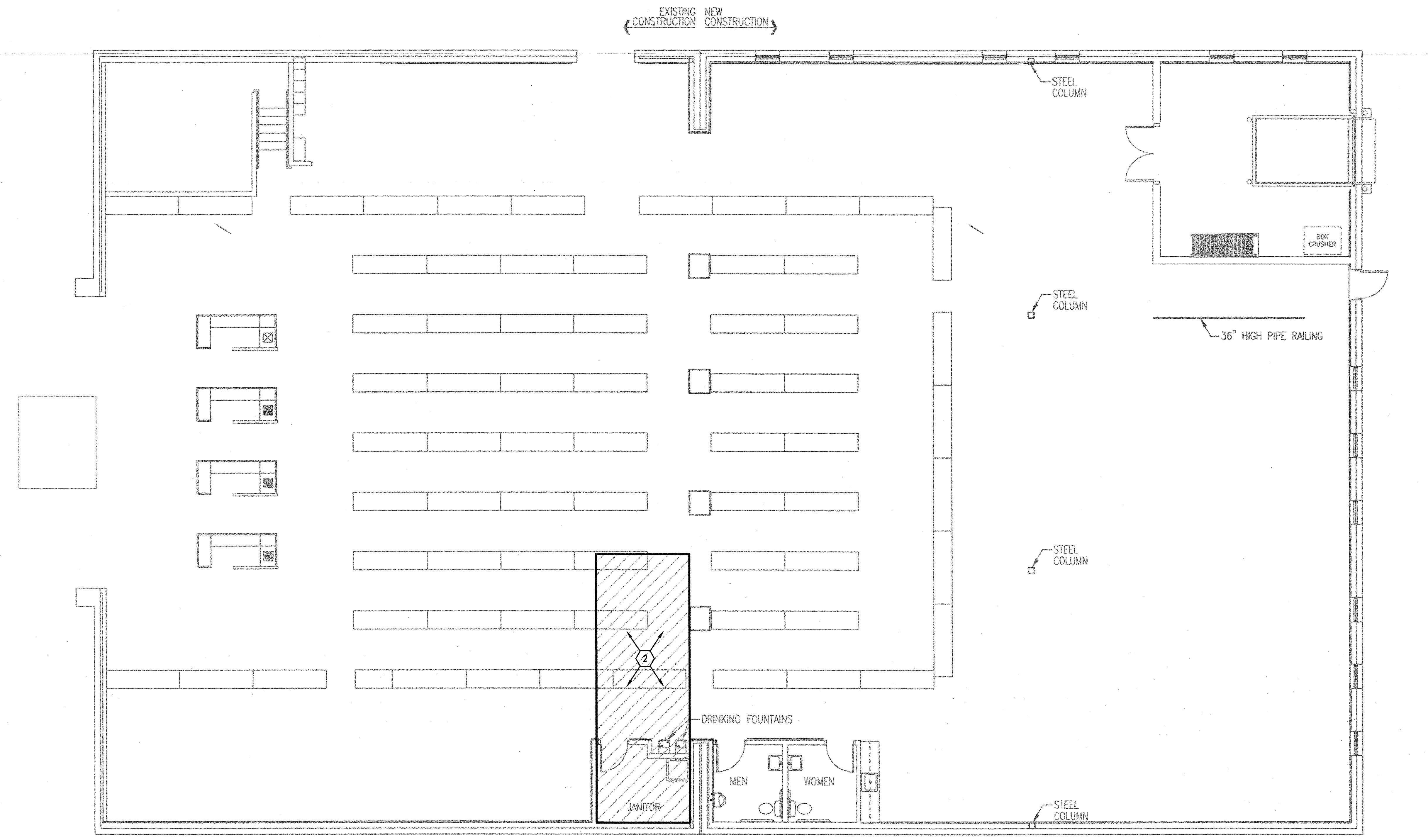


1 PLUMBING FLOOR PLAN

P2.1 SCALE: 1/8" = 1' - 0"



2 PLUMBING DEMO PLAN

P2.1 SCALE: 1/8" = 1' - 0"

KEYED NOTES:

1. QUESTAR TO VERIFY EXISTING METER SIZE AND RESIZE/REPLACE AS REQUIRED TO HANDLE NEW & EXISTING LOADS. M.C. TO ROUTE NEW GAS PIPING THRU WALL AND CONNECT AT METER AS SHOWN. NEW BUILDING GAS LOAD IS 450 CFH @ 4OZ PRESSURE. L.O.R. = 200'
2. ALL EXISTING PIPING IN THIS AREA TO BE DEMOED BACK TO MAINS AND CAPPED.
3. GAS PIPING RISER UP THRU ROOF TO RTU.
4. WATER HEATER TO BE MOUNTED UP HIGH ABOVE SINK. PROVIDE SAFTEY PAN WITH DRAIN DOWN TO SINK. SHOWN HERE FOR CLARITY PURPOSES ONLY. SEE DETAIL 6/M6.1
5. DROP ROOF DRAIN PIPING DOWN TIGHT ALONG WALL AS SHOWN. COORDINATE WITH EXISTING DOWN SPOUT NOZZLES AND TERMINATE AT SAME ELEVATION. (TYPICAL)
6. RISERS TO DRAINS ON ROOF. SEE DETAIL - (TYPICAL)
7. PROVIDE FINAL CONNECTION TO UNIT HEATER AS REQUIRED.
8. M.C. TO FIELD VERIFY EXACT LOCATION AND INVERT OF EXISTING WASTE PIPING. REROUTE NEW WASTE PIPING IF INVERT IS NOT LOW ENOUGH FOR NEW PIPING WITH SLOPE. SAW CUT FLOOR AS REQUIRED TO ROUTE NEW PIPING.
9. CONNECT NEW VENT PIPING TO EXISTING VENT THROUGH ROOF.
10. M.C. TO INSTALL HOSE BIBB UNDER LAVS.
11. CONNECT NEW WATER PIPING TO EXISTING PIPING OF EQUAL OR GREATER SIZE.

GENERAL NOTES:

1. OFFSET AND TRANSITION ALL DUCTWORK AND PIPING AS REQUIRED.
2. ALL VALVES SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS.
3. PROVIDE ACCESS PANELS AS REQUIRED.
4. CONTRACTOR TO COORDINATE ALL INSTALLATIONS WITH OTHER TRADES.
5. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT.
6. ALL PIPING SHALL BE HELD TIGHT TO BOTTOM OF STRUCTURE.
7. PROVIDE 4" DEEP SEAL TRAPS WITH TRAP PRIMERS ON ALL FLOOR DRAINS & FLOOR SINKS.
8. ALL FIRE PROTECTION PIPING SHALL BE SIZED BY FIRE PROTECTION CONTRACTOR.
9. ALL WASTE PIPING TO BE SLOPED AS REQUIRED BY CODE.

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P2.1

EQUIPMENT SCHEDULE

UNIT #	FUNCTION	LOAD	VOLT	PHASE	FULL LOAD AMPS	CONDUIT SIZE	NO. SETS	WIRES NO.	WIRES SIZE	OCPD TYPE	OCPD AMPS	REF. NOTES / REMARKS
EF-1	EXHAUST FAN	75W	120	1	0.74	3/4"	1	2	12	CB	20	MANUAL THERMAL STARTER
EWC-1	ELECT. WATER COOLER	1/8HP	120	1	3.75	3/4"	1	2	12	CB	20	PLUG & CORD CONNECTION
P-1	PUMP	1/8HP	120	1	3.75	3/4"	1	2	12	CB	20	MANUAL THERMAL STARTER
RTU-1	ROOF TOP UNIT	32.7FLA	208	3	32.7	3/4"	1	3	6	CB	50	UNIT C/W DISCONNECT & RECEPTACLE
RTU-2	ROOF TOP UNIT	32.7FLA	208	3	32.7	3/4"	1	3	6	CB	50	UNIT C/W DISCONNECT & RECEPTACLE
UH-1	UNIT HEATER	1/12HP	120	1	3.00	3/4"	1	2	12	CB	20	MANUAL THERMAL STARTER
WH-1	ELECT. WATER HEATER	2.5KW	208	1	14.14	3/4"	1	2	12	CB	15	FUSED DISCONNECT SWITCH 30/15
SL	SISSOR LIFT	5HP	208	3	7.3	3/4"	1	3	6	CB	40	WIRE CONTROLS
BC	BOX CRUSHER	1/2HP	120	1	6.9	3/4"	1	2	12	CB	20	PLUG & CORD

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURE	CATALOG NUMBER	DESCRIPTION	LAMPS	QTY	FIX WATTS	MTG	VOLTS
A	METALUX	2RD1-332RP-EB81	RECESSED 2X4 INDIRECT FLUORESCENT FIXTURE	F32 T8 SP35	3	96	LAY-IN	120
AE	METALUX	2RD1-332RP-EM1400 -EB81	RECESSED 2X4 INDIRECT FLUORESCENT FIXTURE W/BATTERY PACK	F32 T8 SP35	3	96	LAY-IN	120
B	METALUX	2GR8-332A-UNV-EB81	LAY-IN 2X4 LENSED 3-LAMP FLUORESCENT	F32 T8 SP35	3	96	LAY-IN	120
BE	METALUX	2GR8-332A-UNV-EM1400-EB81	LAY-IN 2X4 LENSED 3-LAMP FLUORESCENT W/BATTERY PACK	F32 T8 SP35	3	96	LAY-IN	120
C	METALUX	B1-232-UNV-EB81	WALL MOUNTED 4' 2LAMP FLUORESCENT FIXTURE	F32 T8 SP35	2	66	SURF WAL	120
E	SURE LITE	CU1HD	WALL MOUNTED EMERGENCY BATTERY PACK	L/W FIXTURE	2	50	SURF	120
F	METALUX	8T-D1-232-UNV-EB81	8' 2LAMP INDUSTRIAL FLUORESCENT FIXTURE	F32 T8 SP35	4	110	SUSP	120
G	HALO	L652P/L901P/L1731P	SURFACE MOUNTED TRACK & FIXTURE - WHITE	75W PAR30	1	75	TRACK	120
H	PORTFOLIO	C7042E-7000L1-TRM7P	RECESSED FLUORESCENT DOWNLIGHT	32W PLT	1	35	REC.	120
X1	SURE LITE	CX7170-G-SD	LED EXIT SIGN WITH WHITE BODY & GREEN LETTERS	C/W FIXTURE	-	4	SURF	120
OA	LUMARK	ENV100MH-120-MB-FTP-GM-LG-PM-175	SURFACE MOUNTED 175W METAL HALIDE WALLPACK	175W MH	1	195	SURF	120
OB	INVUE	ICM175MH-MT-S3-AP-WRCP-VA1003-AP	SURFACE MOUNTED 175W METAL HALIDE WALLPACK	175W MH	1	175	SURF	120
OC	INVUE	ICM400MH-MT-S3-AP-L-VA1012-AP// 255RXM25S-AP	400W MH AREA LIGHT ON A 25' ROUND STEEL POLE	400W MH	1	450	POLE	208

ELECTRICAL SYMBOL SCHEDULE

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

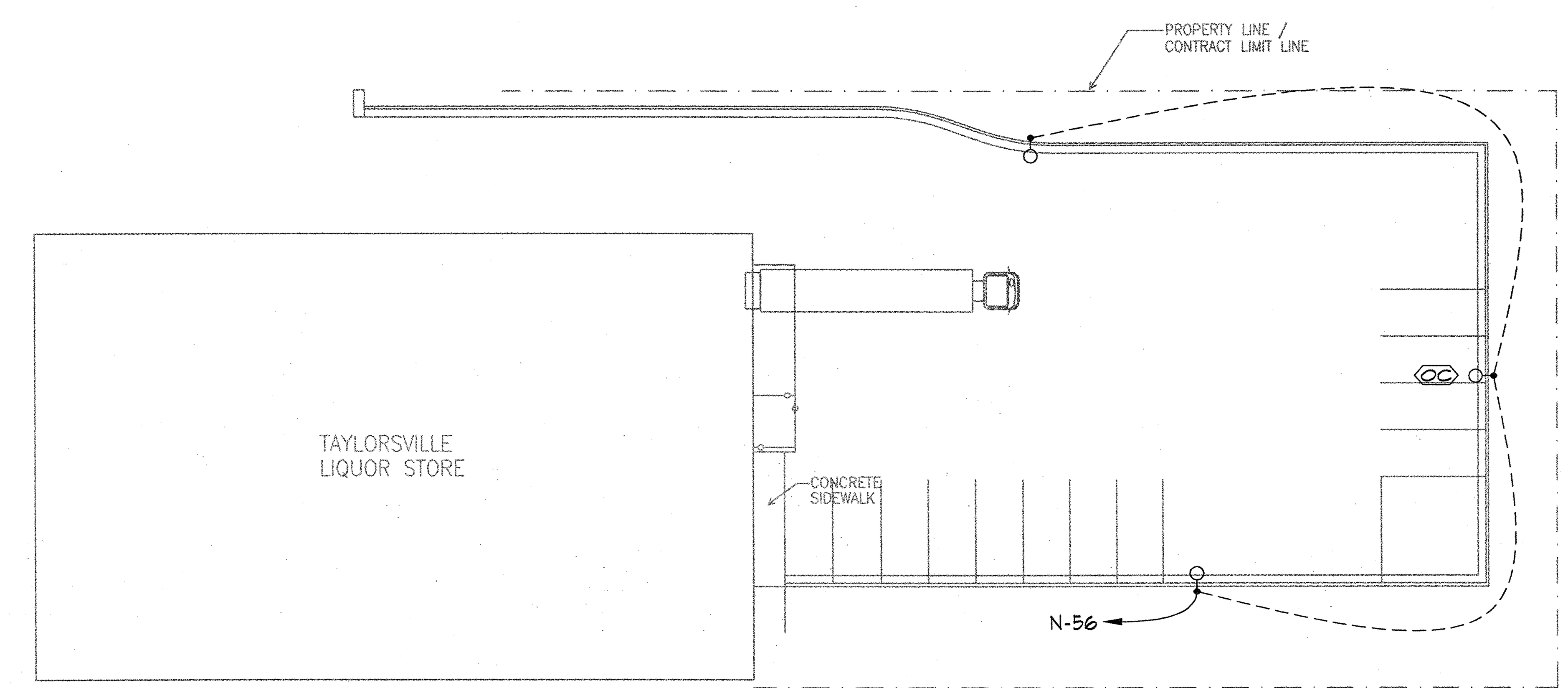
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL		
	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		
	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT UP		
	CONDUIT DOWN		
	CONDUIT STUB LOCATION	CAP CONDUIT	
	CEILING LIGHT FIXTURE	CEILING	
	WALL LIGHT FIXTURE	AS NOTED	
	RECESSED DOWNLIGHT FIXTURE	CEILING	
	FLUORESCENT LIGHT FIXTURE	AS NOTED	
	FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED
	CEILING MOUNTED EXIT LIGHT	CEILING	
	WALL MOUNTED EXIT LIGHT	AS NOTED	
$	SINGLE POLE SWITCH	+4'-0"	
$3	THREE-WAY SWITCH	+4'-0"	
$4	FOUR-WAY SWITCH	+4'-0"	
D	DIMMER SWITCH	+4'-0"	
	DUPLEX RECEPTACLE	+16"	
A	DUPLEX RECEPTACLE		ABOVE COUNTER
W	ELECTRIC WATER COOLER RECEPTACLE		SEE DETAIL
WP	WEATHERPROOF RECEPTACLE	+24"	
IG	ISOLATED GROUND RECEPTACLE	+16"	
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16"	
	FOURPLEX RECEPTACLE	+16"	
	SPECIAL PURPOSE OUTLET	+16" OR AS NOTED	
	TELEPHONE OUTLET-RUN 3/4"C 6 TEL. EQUIP BOARD	+16"	
	TELEPHONE/DATA OUTLET-RUN 3/4"C TO TEL EQUIP BOARD	+16"	
J	JUNCTION BOX ('F' IN FLOOR)	AS NOTED	
	MOTOR OUTLET	TO SUIT EQUIP.	
$T	MANUAL STARTER THERMAL OVERLOAD SWITCH W/PILOT LIGHT	+4'-0"	
	PANEL BOARD	TOP AT +6'-0"	
	TELEPHONE TERMINAL BOARD		
F	FIRE ALARM MANUAL STATION	+4'-0"	
H	FIRE ALARM SIGNAL HORN/STROBE (CLG) = CEILING	+6'-8"	
S	SMOKE DETECTOR	CEILING	
D	DUCT SMOKE DETECTOR		MTD. IN DUCT
H	HEAT DETECTOR	CEILING	
842	ARCHITECTURAL ROOM NUMBER		
A	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
EQ 34	EQUIPMENT NUMBER		
•••	OVER HEAD DOOR CONTROLLER		
	FUSED DISCONNECT SWITCH		
	DISCONNECT SWITCH		
	CLOSED CIRCUIT TELEVISION CAMERA	CEILING	
◆	SECURITY DOOR POSITION INDICATING SWITCH	DOOR JAMB	
M	SECURITY MOTION SENSOR	CEILING	
GB	GLASS BREAK SENSOR	+96"	VERIFY

GENERAL NOTES

1. DO NOT SCALE DRAWINGS VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-INS.
2. FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
3. CONSULT ARCHITECTS REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS ETC.
4. ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES AND ROUGH-IN REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO DUCT, PIPING AND CEILING INSTALLATIONS.
5. ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB RATED PULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH JUNCTION, PULL AND TERMINATION POINT, USING PERMANANT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
6. ALL PENETRATIONS OF FIRE RATED FLOORS, CEILING AND WALLS SHALL BE SEALED WITH APPROVED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATING OF ASSEMBLY.
7. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS OR GROUTED CELLS OF MASONRY WALLS ADJACENT TO OPENINGS WITHOUT COORDINATION WITH THE MASONRY CONTRACTOR.
8. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO VERBALLY APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.
9. CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID.
10. WORK SHALL BE PERFORMED IN A PROFESSIONAL WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
11. WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.
12. CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.
13. THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. DEFECTS SHALL BE PROMPTLY CORRECTED.
14. PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
15. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
16. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY ALL CODE AND MAINTENANCE REQUIRED CLEARANCES ARE MAINTAINED.
17. CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DESCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.
18. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS RESULT IN DEFECT OR IMPROPER OPERATION THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER.
19. WIRE SHALL BE COPPER 75° C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 3" OF FLUORESCENT BALLAST SHALL BE COPPER, MINIMUM 90° C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30° C AMBIENT TEMPERATURE ENVIROMENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
20. SPLICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS ENTERING BOXES WITH "DUCTSEAL" OR EQUAL.
21. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS BOUND IN A THREE RING BINDER, INDEXED IN A NEAT AND ORDERLY MANNER WITH TYPE AND MODEL NUMBERS INDICATED. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO: LIGHTING FIXTURES, LAMPS, WIRING DEVICES, OCCUPANCY SENSORS, CONTACTORS, TIME CLOCKS, PHOTOCELLS, RELAYS, SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, SAFETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSFORMERS, CONDUCTORS OVER 600 VOLTS AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM, LIGHTING CONTROLS, SECURITY SYSTEMS, SOUND SYSTEMS ETC.
22. VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL EXCAVATION, SUPPORTS, SERVICE FEEDERS, (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAVING ETC, REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION AND PATCHING TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE UTILITIES. ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL AND MECHANICAL ENGINEERS AND CONTRACTORS.
23. PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING AT GRADE LEVEL, SHALL BE WEATHERPROOF TYPE WITH HINGED GASKETED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.
24. CONTROL OUTDOOR LIGHTING WITH CONTACTOR & 24/7 TIME CLOCK WITH RESERVE POWER AND PHOTO CELL NEAR ROOF.

TAYLORSVILLE LIQUOR STORE

INDEX OF ELECTRICAL DRAWINGS



ELECTRICAL SITE PLAN

SCALE: 1"=20'-0"

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ELECTRICAL SYMBOLS, SCHEDULES AND NOTES

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REGISTERED PROFESSIONAL ENGINEER No. 154867 DEAN P. LEVORSEN STATE OF UTAH 3-11-08

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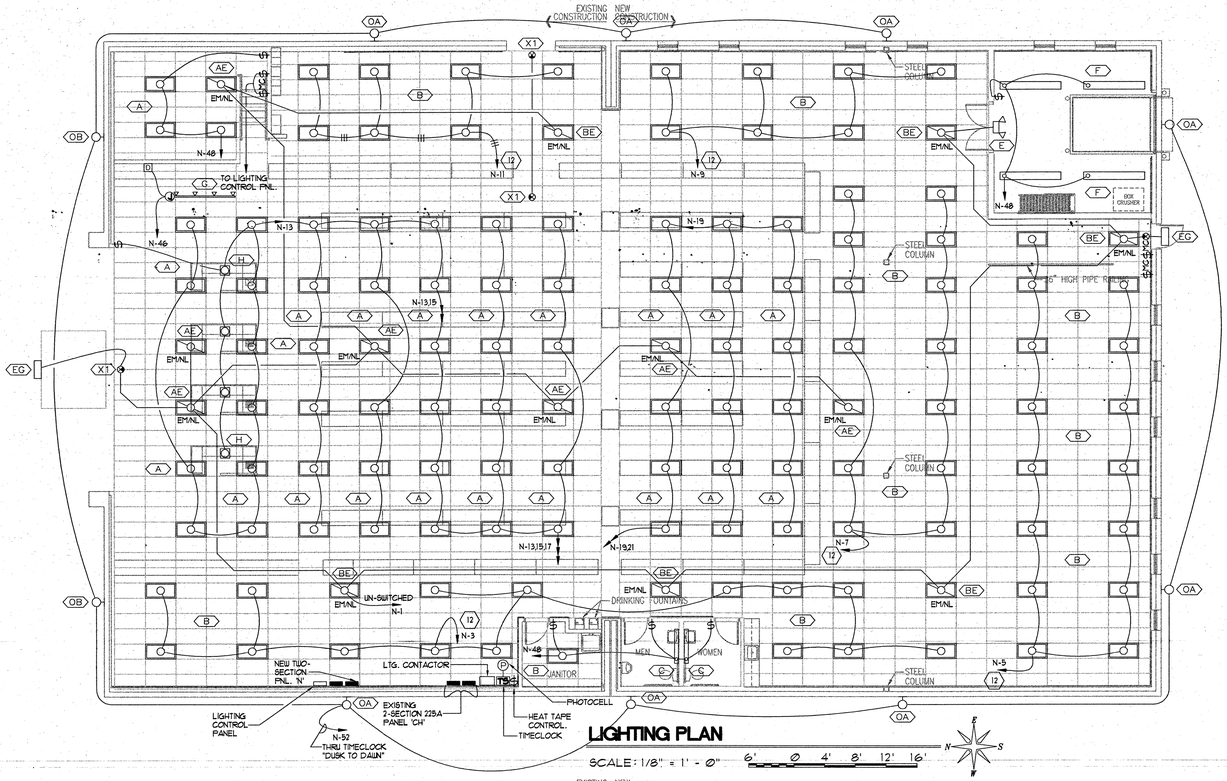
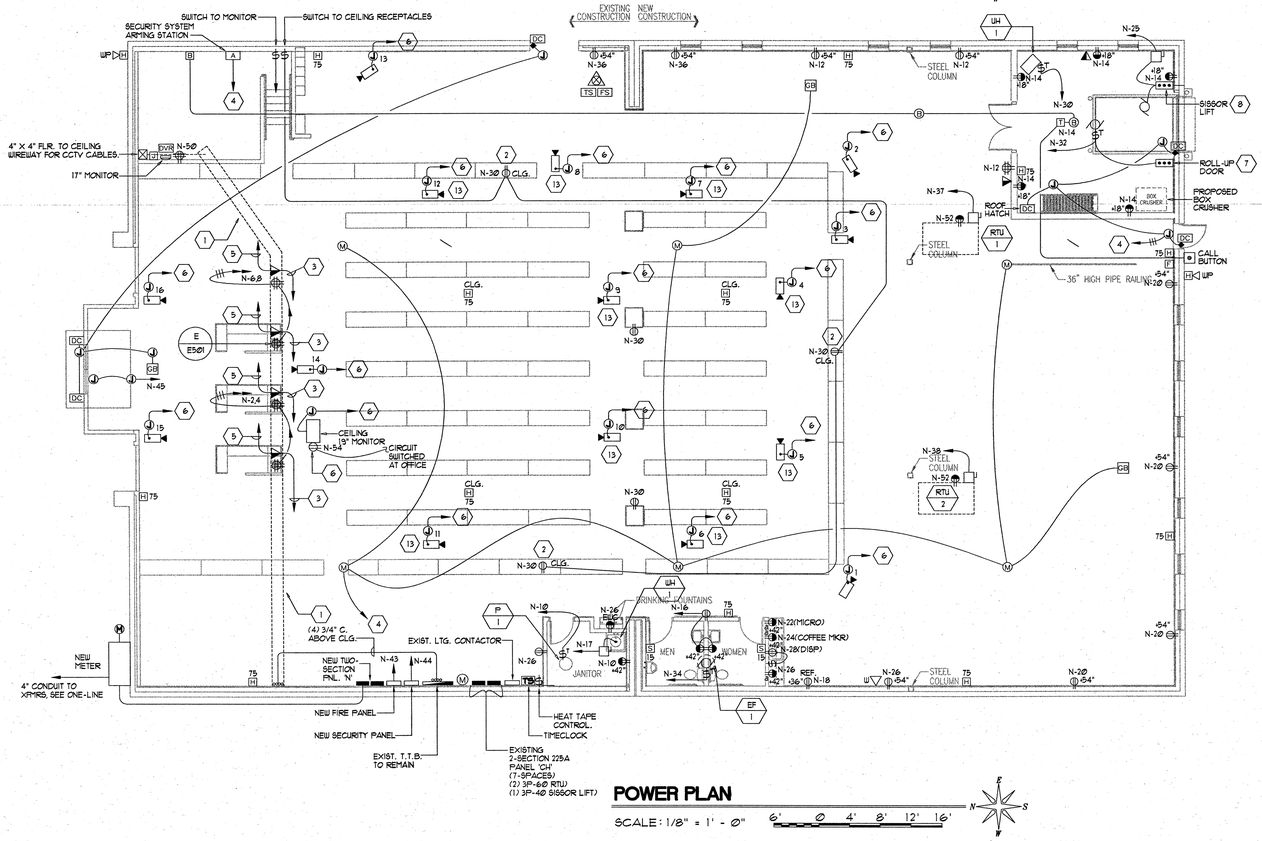


LIGHTING PLAN

SCALE: 1/8" = 1' - 0"

KEYED NOTES

1. SAW CUT FLOOR FOR INSTALLATION OF POWER, DATA & PHONE CONDUITS.
2. OUTLET IN CEILING FOR SEASONAL DISPLAYS WITH SWITCH AT OFFICE.
3. 3/4" CONDUIT WITH 4-PAIR, CAT-5E CABLES TO PHONE BOARD.
4. 3/4" CONDUIT TO SECURITY SYSTEM PANEL WITH WIRES PER MANUFACTURER RECOMMENDATIONS.
5. 3/4" CONDUIT WITH (2) 4-PAIR, CAT-5E CABLES TO DATA RACK IN OFFICE.
6. 3/4" CONDUIT WITH COAX. & CONTROL CABLE TO CCTV EQUIPMENT IN OFFICE. VERIFY EXACT CAMERA & OR MONITOR LOCATION WITH ABC REPRESENTATIVE PRIOR TO ROUGH-IN. COIL A MINIMUM OF COAX. & POWER WIRING @ EACH CAMERA FOR FUTURE RE-POSITIONING OF CAMERA.
7. POWER DOOR CONTROLLER PROVIDED WITH DOOR. INSTALLED & WIRED BY ELECTRICAL.
8. SISSOR LIFT CONTROLLER PROVIDED WITH LIFT. INSTALLED & WIRED BY ELECTRICAL.
9. RECEPTACLE IN CEILING FOR T.V. MONITOR WITH SWITCH IN OFFICE. VERIFY EXACT LOCATION WITH ABC.
10. REMOVE AND ABANDON ALL ELECTRICAL TO EXISTING SISSOR LIFT.
11. MOMENTARY CONTACT SWITCH, WIRE TO CONTACTOR.
12. WIRE CIRCUIT THRU LIGHTING CONTROL PANEL.
13. CAMERA TO BE MOUNTED ON AN 18" PENDANT OFF CEILING. PROVIDE BACKING FOR SUPPORT.



POWER PLAN

SCALE: 1/8" = 1' - 0"

TAYLORSVILLE LIQUOR STORE EXPANSION AND REMODEL

DEPT. OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

LIGHTING AND POWER PLANS

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

REGISTERED PROFESSIONAL ENGINEER
No. 154867
DEAN P. LEVORSEN
STATE OF UTAH
3/5/08

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PANELBOARD SCHEDULE

(SECTION-1)

PANEL 'N' | 120/208 VOLTS | 3 PH | 4 W

MOUNTING: [ ] FLUSH [XX] SURFACE

RATING: 10,000 AIC | AMP 400ML0 | LOCATION: WALL | PROJECT: TAYLORSVILLE LIQUOR STORE

BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
NIGHT LIGHTS	20	1	12	1	1470			600			2	20	1	12	RECEPTACLES
* LIGHTING				3		1400			600		4				
* LIGHTING				5			1725			600	6				
* LIGHTING				7	1610			600			8				
* LIGHTING				9		1250			400		10				
* LIGHTING				11			1150			900	12				
* LIGHTING				13	1050			1000			14				
* LIGHTING				15		1365			600		16				
* LIGHTING				17			1575			1000	18				
* LIGHTING				19	1260			800			20				
LIGHTING				21		600			1100		22				RECEPT. (MICRO)
SPARE	20	1		23			–			1000	24				REC. (COFFEE MKR)
SPARE	20	1		25	–			600			26	–	–	–	RECEPTACLES
SPARE	20	1		27					1000		28				REC. (DISPOSAL)
SPARE	20	1		29			–			1000	30				UH-1
SISSOR LIFT	40	3	8	31	2000			1000			32				ROLL-UP-DOOR
–	–	–	–	33		2000			500		34				EF-1
–	–	–	–	35			2000			400	36				RECEPTACLES
RTU-1	60	3	6	37	3900			3900			38	60	3	6	RTU-2
7-1/2HP	–	–	–	39		3900			3900		40	–	–	–	7-1/2HP
–	–	–	–	41			3900			3900	42	–	–	–	–
					11290	10515	10350	8500	8100	8800					
				TOTAL	19790	18615	19150								

* WIRE THRU LIGHTING CONTROL PANEL

PANELBOARD SCHEDULE

(SECTION-2)

PANEL 'N' | 120/208 VOLTS | 3 PH | 4 W

MOUNTING: [ ] FLUSH [XX] SURFACE

RATING: 10,000 AIC | AMP 400ML0 | LOCATION: WALL | PROJECT: TAYLORSVILLE LIQUOR STORE

BRANCH BREAKERS

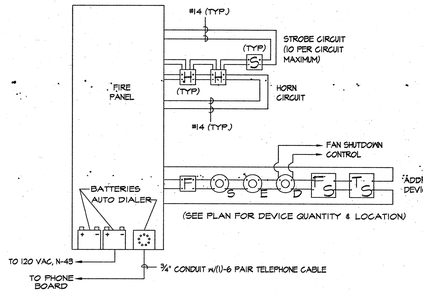
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD A	LEFT PHASE LOAD B	LEFT PHASE LOAD C	RIGHT PHASE LOAD A	RIGHT PHASE LOAD B	RIGHT PHASE LOAD C	CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
F.A. PANEL	20	1	12	43	500			500			44	20	1	12	SECURITY PANEL
AUTO DOORS	20	1	12	45		800			600		46	20	1	12	LIGHTING
SPARE	20	1		47			–			1000	48	20	1	12	LIGHTING
SPARE	20	1		49				1000			50	20	1	12	CAMERA SYSTEM
SPARE	20	1		51					400		52	20	1	12	ROOF OUTLETS
SPARE	20	1		53						300	54	20	1	12	RECEPTACLES
SPACE				55				700			56	20	1	12	POLE LIGHTS
				57					700		58	–	–	–	–
				59							60	20	1		SPARE
				61							62				
				63							64				
				65							66				
				67							68				
				69							70				
				71							72				
				73							74				
				75							76				
				77							78				
				79				15000			80	200	1	12	EXIST. PNL. 'CH'
				81						15000	82	–	–	–	–
				83						15000	84	–	–	–	–
					500	800	800	16700	16700	16300					
				SECTION-2 TOTAL	17200	17500	17100								
				SECTION-1 TOTAL	19790	18615	19150								
				GRAND TOTAL	36990	36115	36250								

LOAD TOTAL 109,355

FLA 303

A PANEL SCHEDULE

NONE



C FIRE ALARM RISER DIAGRAM

NONE

GENERAL NOTES:

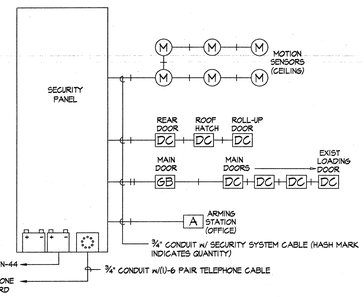
1. CONTRACTOR TO PROVIDE ALL TRENCHING AND BACKFILL. POWER COMPANY TO PROVIDE AND INSTALL PRIMARY CABLE. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS. ALL SERVICE WORK SHALL CONFORM TO POWER COMPANY INSTALLATION STANDARDS.

FIRE ALARM GENERAL NOTES:

1. COORDINATE FIRE ALARM DEVICES WITH LIGHTING FIXTURES, SPEAKERS, GRILLS, ETC.
2. DO NOT INSTALL SMOKE DETECTORS WITHIN 3'-0" OF ANY MECHANICAL GRILL.
3. FIRE ALARM CONTROL PANEL ENCLOSURE SHALL CONTAIN A FLANGE AROUND PERIMETER TO FACILITATE AND IMPROVE THE AESTHETIC TRANSITION FROM ENCLOSURE TO SHEETROCK.
4. VERIFY ANY POTENTIAL ADDITIONAL REQUIREMENTS WITH THE AUTHORITY HAVING JURISTICTION.
5. DUCT SMOKE DETECTORS SHOWN FOR REFERENCE.COORDINATE DUCT SMOKE. DETECTOR LOCATIONS WITH MECHANICAL PLANS.

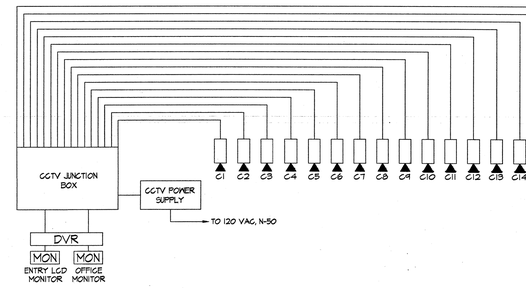
KEYED NOTES (⊙):

1. GROUND SLEEVE PROVIDED AND INSTALLED BY POWER COMPANY. FIELD VERIFY THE EXACT LOCATION DURING THE BIDDING PROCESS.
2. (1)-4" PRIMARY CONDUIT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. MINIMUM DEPTH 48". PRIMARY CONDUCTORS PROVIDED AND INSTALLED BY POWER COMPANY.
3. TRANSFORMER AND CONCRETE VAULT PAD. TRANSFORMER PROVIDED AND INSTALLED BY POWER COMPANY. CONCRETE VAULT PROVIDED BY THE ELECTRICAL CONTRACTOR AS PER POWER COMPANY REQUIREMENTS AND SPECIFICATIONS.
4. PROVIDE AND INSTALL EUSERC RATED G.T. ENCLOSURE AS PER POWER COMPANY SPECIFICATIONS.
5. PROVIDE AND INSTALL METER BASE AS PER POWER COMPANY SPECIFICATIONS.
6. MAIN FUSED DISCONNECT. MOUNTED ON BUILDING AT A LOCATION DESIGNATED BY THE ARCHITECT.
7. #2/0 COPPER TO GROUND (SEE SERVICE GROUNDING DETAIL).
8. GROUND REQUIRED REGARDLESS OF CONDUIT TYPE.
9. EXISTING TELEPHONE TERMINAL BOARD.
10. DATA TERMINAL CABINET. PROVIDE AND INSTALL CABINET AS REQUIRED. PROVIDE A CABINET TO MEET THE STATE OF UTAH LIQUOR CONTROL COMMISSION SPECIFICATIONS.



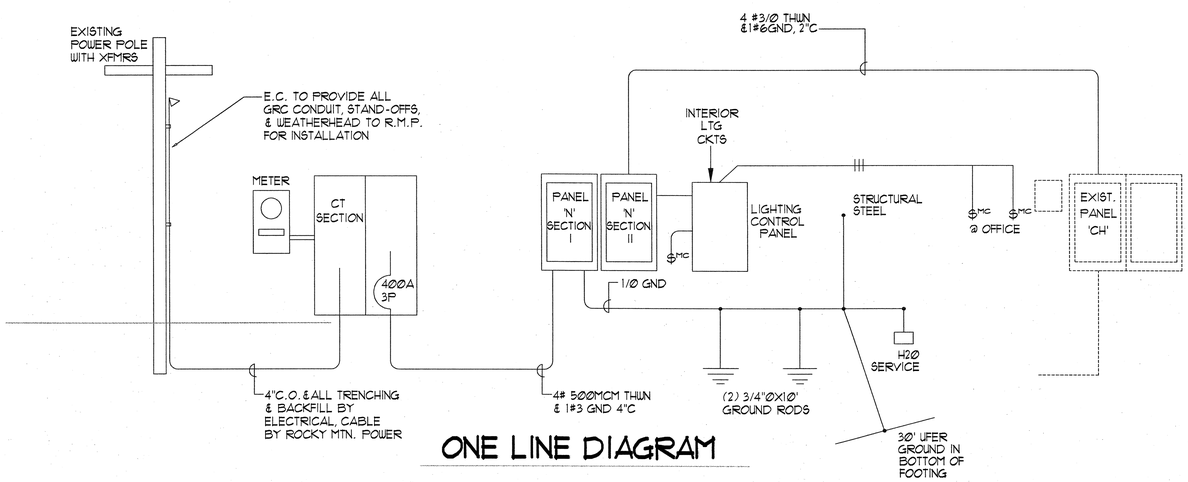
D SECURITY RISER DIAGRAM

NONE



E CCTV SYSTEM RISER DIAGRAM

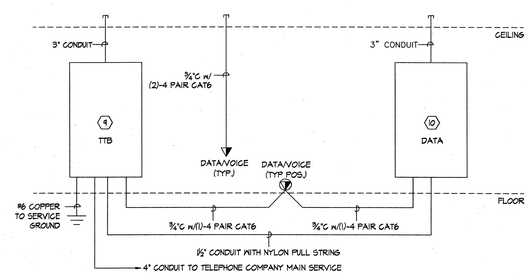
NONE



ONE LINE DIAGRAM

B ONE-LINE DIAGRAM

NONE



F TELEPHONE/DATA RISER DIAGRAM

NONE

TAYLORSVILLE LIQUOR STORE EXPANSION AND REMODEL

DEPT. OF ALCOHOLIC BEVERAGE CONTROL
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975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL (801) 532-4441 FAX (801) 532-4220

ELECTRICAL DIAGRAMS

REGISTERED PROFESSIONAL ENGINEER No. 154867 DEAN P. LEVORSEN STATE OF UTAH 5-11-08

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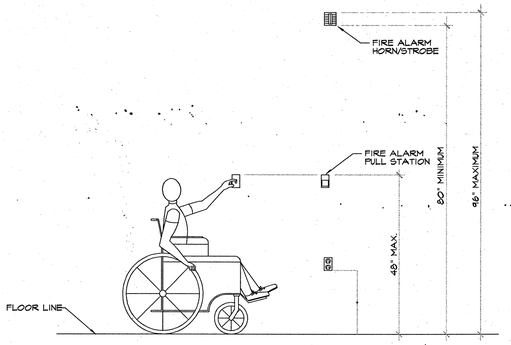
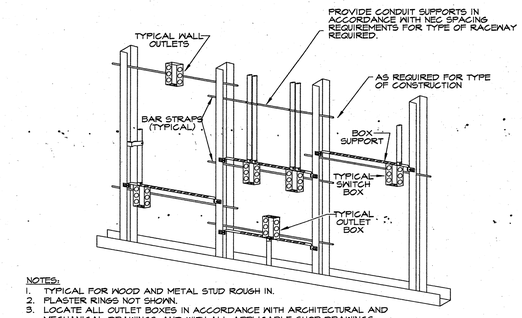


A MOUNTING HEIGHTS DETAIL

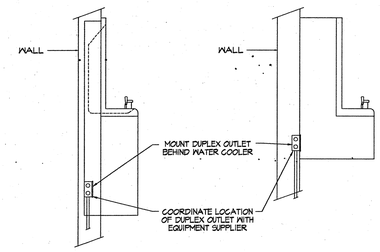
NONE



NOTES:
1. TYPICAL FOR WOOD AND METAL STUD ROUGH IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPERATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE.

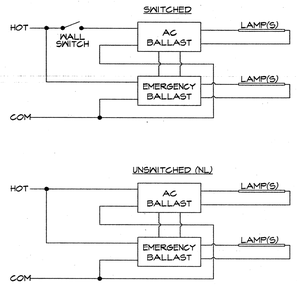
B TYPICAL ROUGH-IN REQUIREMENTS DETAIL

NONE



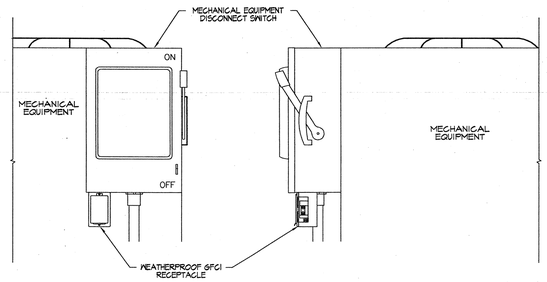
C ELECTRIC WATER COOLER DETAIL

NONE



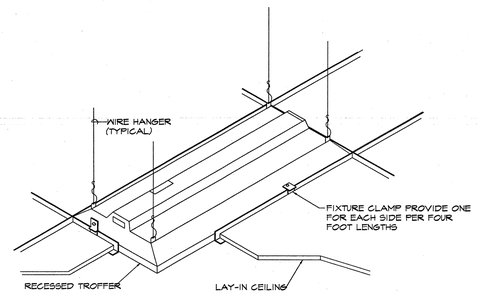
D EMERGENCY BALLAST OPERATION DETAIL

NONE



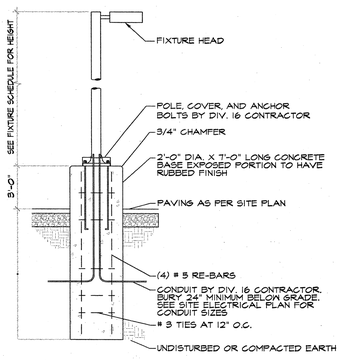
E WEATHER PROOF RECEPTACLE MOUNTING DETAIL

NONE



F TYPICAL RECESSED FIXTURE MOUNTING DETAIL

NONE



G POLE BASE DETAIL

NONE

TAYLORSVILLE LIQUOR STORE EXPANSION AND REMODEL

DEPT. OF ALCOHOLIC BEVERAGE CONTROL
3905 WEST 5400 SOUTH, TAYLORSVILLE, UTAH 84118

ELECTRICAL DETAILS

FRANK N MURDOCK JR ■ Architect & Associates
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REGISTERED PROFESSIONAL ENGINEER No. 348867 DEAN N LEMORSEN STATE OF UTAH 3-11-08

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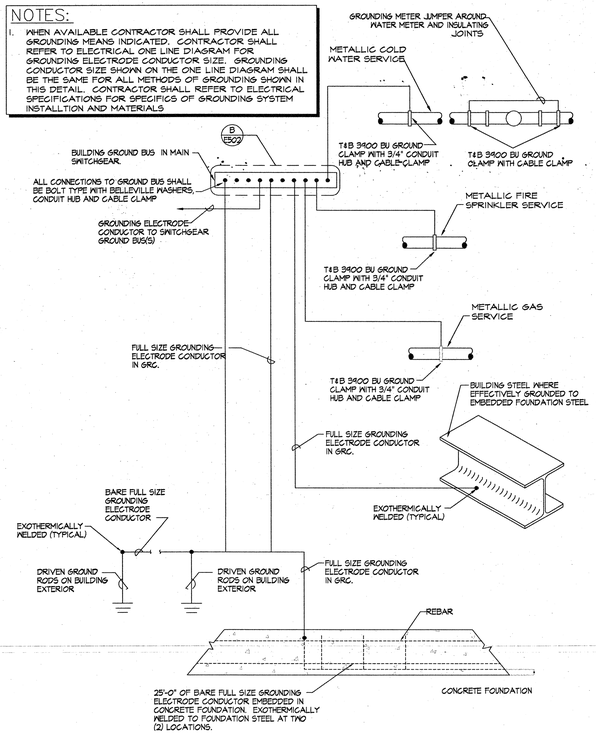
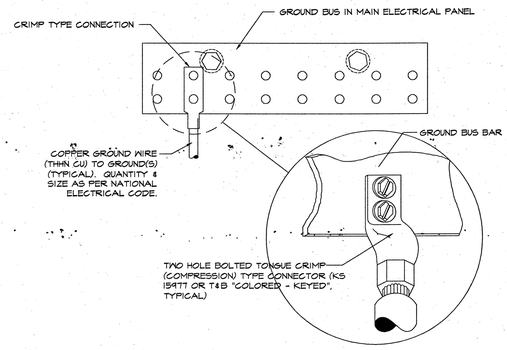
E 401

NOTES:

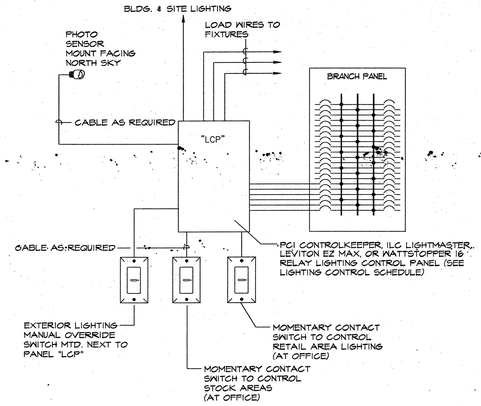
1. WHEN AVAILABLE CONTRACTOR SHALL PROVIDE ALL GROUNDING MEANS INDICATED. CONTRACTOR SHALL REFER TO ELECTRICAL ONE LINE DIAGRAM FOR GROUNDING ELECTRODE CONDUCTOR SIZE. GROUNDING CONDUCTOR SIZE SHOWN ON THE ONE LINE DIAGRAM SHALL BE THE SAME FOR ALL METHODS OF GROUNDING SHOWN IN THIS DETAIL. CONTRACTOR SHALL REFER TO ELECTRICAL SPECIFICATIONS FOR SPECIFICS OF GROUNDING SYSTEM INSTALLTION AND MATERIALS



A	SERVICE GROUNDING DETAIL
NONE	



B	SERVICE BUS GROUNDING DETAIL
NONE	



C	LIGHTING CONTROL PANEL DETAIL
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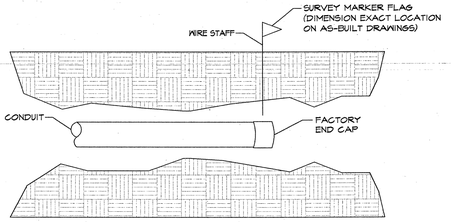
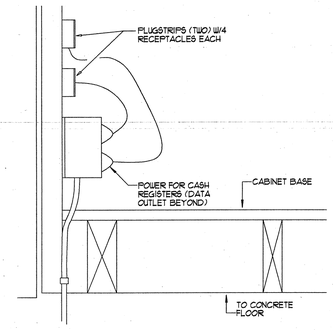


D	UNDERGROUND CONDUIT STUB & MARKING DETAIL
NONE	



E	POINT OF SALE UNDER COUNTER DETAIL
NONE	

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